

HITACHI

SERVICE MANUAL

SM9209

HTDK160



SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

DVD DIGITAL THEATRE SYSTEM

November 2002

Digital Media Division

ENGLISH

SAFETY PRECAUTIONS

WARNING: The following precautions must be observed.

ALL PRODUCTS

Before any service is performed on the chassis an isolation transformer should be inserted between the power line and the product.

1. When replacing the chassis in the cabinet, ensure all the protective devices are put back in place.
2. When service is required, observe the original lead dressing. Extra precaution should be taken to ensure correct lead dressing in any high voltage circuitry area.
3. Many electrical and mechanical parts in HITACHI products have special safety related characteristics. These characteristics are often not evident from visual inspection, nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified by marking with a  on the schematics and the replacement parts list.

The use of a substitute replacement component that does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list, may create electrical shock, fire, X-radiation, or other hazards.

4. Always replace original spacers and maintain lead lengths. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of overheating.
5. Insulation resistance should not be less than 2M ohms at 500V DC between the main poles and any accessible metal parts.
6. No flashover or breakdown should occur during the dielectric strength test, applying 3kV AC or 4.25kV DC for two seconds between the main poles and accessible metal parts.
7. Before returning a serviced product to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock. The service technician must make sure that no protective device built into the instrument by the manufacturer has become defective, or inadvertently damaged during servicing.

CE MARK

1. HITACHI products may contain the CE mark on the rating plate indicating that the product contains parts that have been specifically approved to provide electromagnetic compatibility to designated levels.
2. When replacing any part in this product, please use only the correct part itemised in the parts list to ensure this standard is maintained, and take care to replace lead dressing to its original state, as this can have a bearing on the electromagnetic radiation/immunity.

PICTURE TUBE

1. The line output stage can develop voltages in excess of 25kV; if the E.H.T. cap is required to be removed, discharge the anode to chassis via a high value resistor, prior to its removal from the picture tube.
2. High voltage should always be kept at the rated value of the chassis and no higher. Operating at higher voltages may cause a failure of the picture tube or high voltage supply, and also, under certain circumstances could produce X-radiation levels moderately in excess of design levels. The high voltage must not, under any circumstances, exceed 29kV on the chassis (except for projection Televisions).
3. The primary source of X-radiation in the product is the picture tube. The picture tube utilised for the above mentioned function in this chassis is specially constructed to limit X-radiation. For continued X-radiation protection, replace tube with the same type as the original HITACHI approved type
4. Keep the picture tube away from the body while handling. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled

LASERS

If the product contains a laser avoid direct exposure to the beam when the cover is open or when interlocks are defeated or have failed.

CONTENTS

1 GENERAL INFORMATION	E1-1	SCHEMATIC, CIRCUIT BOARD AND BLOCK DIAGRAMS	1
1-1 SPECIFICATIONS	E1-1	1 MAIN UNIT SECTION	1
1-2 CONTROLLING VERSION OF FIRMWARE	E1-2	1-1 WIRING DIAGRAM	1
1-3 REPAIR INSTRUCTIONS	E1-3	1-2 BLOCK DIAGRAM	2
		1-3 SCHEMATIC DIAGRAMS	3
2 EXPLODED VIEW	2-1	TUNER	3
2-1 MAIN UNIT	2-1	SCART	4
2-2 SUBWOOFER	2-2	KEY PANEL	5
		POWER	6
3 REPLACEMENT PARTS LIST	3-1	MAIN	7
3-1 MAIN UNIT SECTION	3-1	1-4 IC BLOCK DIAGRAMS	11
3-1-1 MECHANICAL PARTS LIST	3-1	1-5 CIRCUIT BOARD DIAGRAMS	16
3-1-2 ELECTRICAL PARTS LIST	3-2	TUNER	16
TUNER	3-2	SCART	18
SCART	3-3	KEY PANEL	19
KEY PANEL	3-4	POWER	20
POWER	3-5	MAIN	21
MAIN	3-6	2 SUBWOOFER SECTION	23
3-2 SUBWOOFER SECTION	3-9	2-1 WIRING DIAGRAM	23
3-2-1 MECHANICAL PARTS LIST	3-9	2-2 BLOCK DIAGRAM	24
3-2-2 ELECTRICAL PARTS LIST	3-10	2-3 SCHEMATIC DIAGRAMS	25
AMP & JACK	3-10	AMP & JACK	25
POWER	3-10	POWER	26
		2-4 CIRCUIT BOARD DIAGRAMS	27
		AMP & JACK	27
		POWER	28

1-1 SPECIFICATIONS

■ MAIN UNIT

DVD Player

Pickup Semiconductor laser, Wavelength 650 nm
 Signal system NTSC / PAL
 Video signal horizontal resolution 480 lines (DVD)
 Video signal-to-noise ratio 50 dB (DVD)
 Audio signal-to-noise ratio 60 dB
 Total harmonic distortion 0.05%
 Dynamic range DVD : 80 dB ; CD: 80 dB

FM Tuner

System PLL quartz-locked digital synthesizer system
 Tuning range 87.50 ~ 108.00 MHz (50 kHz step)
 Antenna FM pigtail antenna
 Antenna terminals 75 ohms, unbalanced
 Intermediate frequency 10.7 MHz

AM Tuner

System PLL quartz-locked digital synthesizer system
 Tuning range 522~1620 kHz (9 kHz interval)
 Antenna AM Loop antenna

Video outputs

CVBS Video 1 Vp-p 75 ohms
 S-video Y: 1 Vp-p 75 ohms
 C: PAL 0.3 Vp-p 75 ohms / NTSC 0.286 Vp-p 75 ohms
 Scart out 1 Vp-p 75 ohms
 Optical & Coaxial out 1 Vp-p 75 ohms

Audio line outputs

Audio L/R 1 Vrms, 1k ohms
 Subwoofer 1.2Vrms maximum (adjustable), 1k ohms

Audio power outputs

Stereo mode 50 W + 50 W (8 ohms at 1 kHz, THD 10%)
 Surround mode Front: 50 W + 50 W (8 ohms at 1 kHz, THD 10%)
 Center: 50 W (8 ohms at 1 kHz, THD 10%)
 Rear: 50 W + 50 W (8 ohms at 1 kHz, THD 10%)
 Phones Headphones jack(stereo 3.54mm)

General (main unit)

Power requirements AC 220 - 240 V, 50 Hz
 Power consumption 250 W
 Dimensions W 435 x H 59 x D 345 mm
 Weight 4.8 kg

■ SPEAKERS

Active Subwoofer

Output power : 100 W (4 ohms at 55Hz, THD 10%)
 Speaker system : Bass reflex
 Power requirements : AC 220 - 240 V, 50 Hz
 Power consumption : 165 W
 Speaker unit : 8 inches
 Rated impedance : 4 ohms
 Dimensions : W 200 x H 360 x D 345 mm
 Weight : 9.8 kg

Front / Center / Rear speakers

Power: 50 W maximum
 Speaker system: Bass reflex
 Speaker unit: 3 inches, cone type: paper
 Rated impedance: 8 ohms
 Dimensions: W 90 x H 150 x D 110 mm
 Weight: 0.64 kg (rear speaker)
 0.82 kg (front , center speaker)

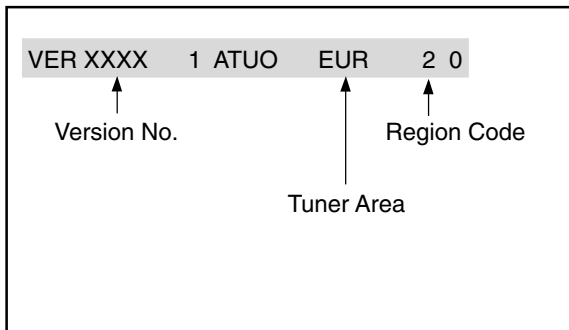
1-2 CONTROLLING VERSION OF FIRMWARE

The firmware is regularly modified as required to improve the performance.

Check to see whether the customer problem can be solved by upgrading the firmware : If it can, do so.

<Procedure for checking the version of firmware>

- 1) Open the tray with power on.
- 2) While holding down the "ADJ/VOL (+)" key on remote control, press the "Zoom" key.
- 3) The version of firmware will appear at the top left of screen.
(The display will disappear in approx. 5 seconds.)



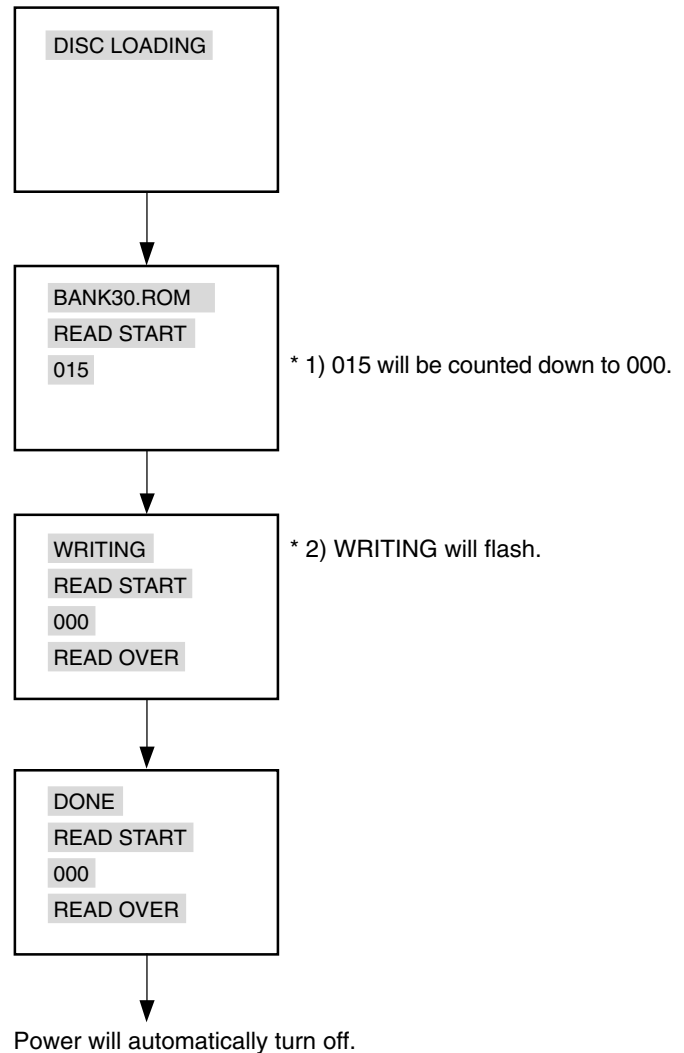
<Procedure for rewriting firmware>

- 1) Turn power on.
- 2) Place the upgrade CD-R on tray, and press the "OPEN/CLOSE" or "PLAY" key.
- 3) Messages will appear at the top left of screen in the order shown below ("MP3 STOP" will appear in the display).
- 4) When rewrite of the firmware is complete, the system will automatically turn off.
- 5) Unplug the power cord and then plug it in again.
- 6) Turn power on, and press the "OPEN/CLOSE" key while "LOADING" is shown in the display to remove the upgrade CD-R (if the CD-R is left in the tray, rewrite of the firmware will restart).
- 7) Check the version of firmware.

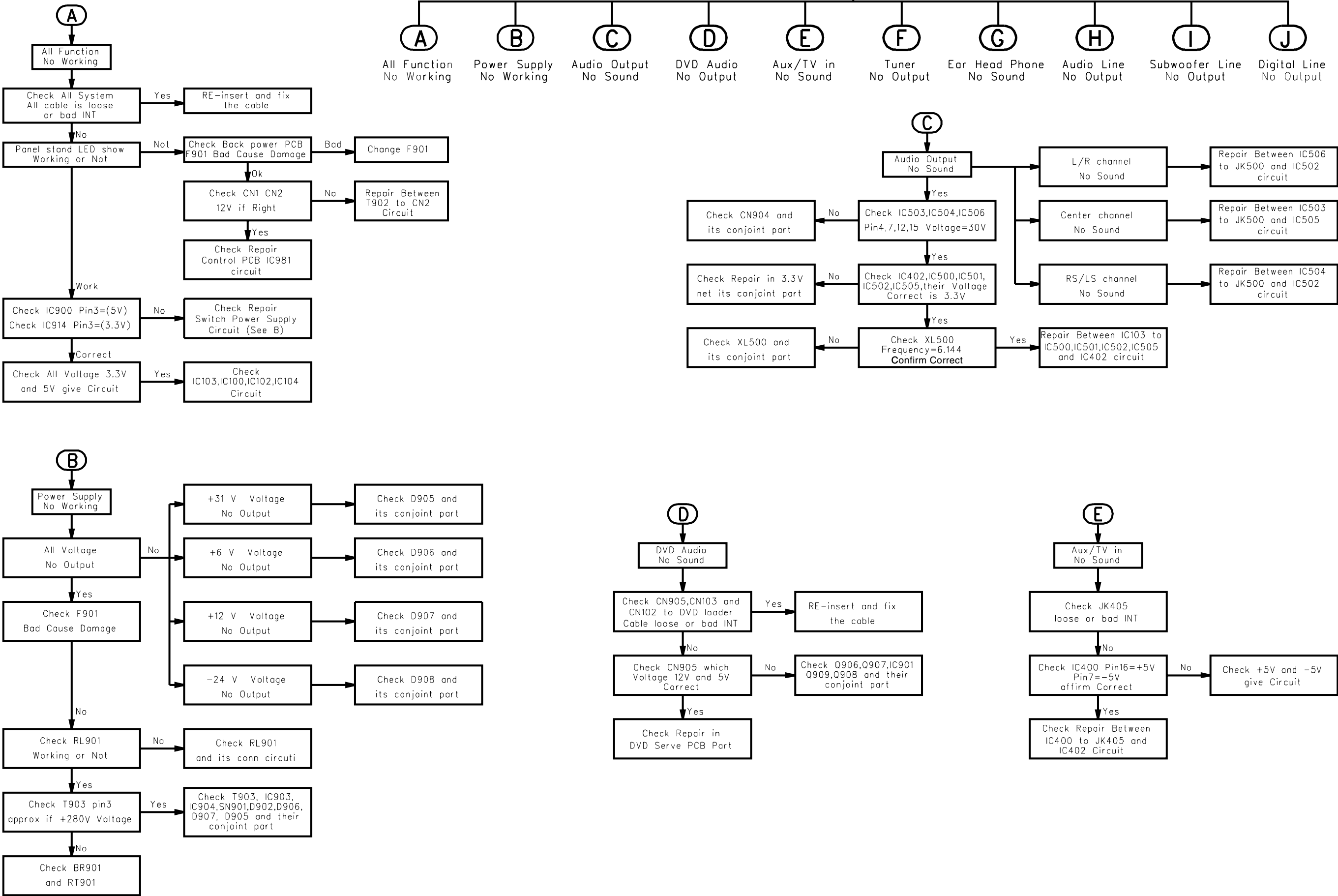
Caution: Be sure not to unplug the power cord during the rewrite operation.

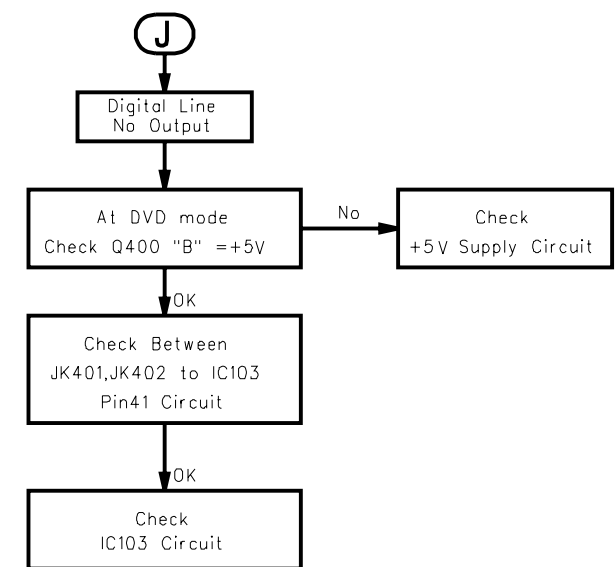
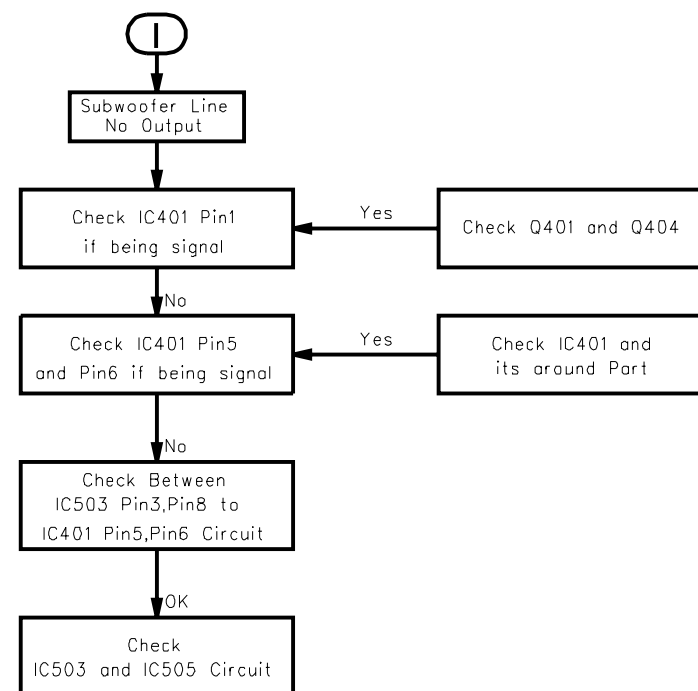
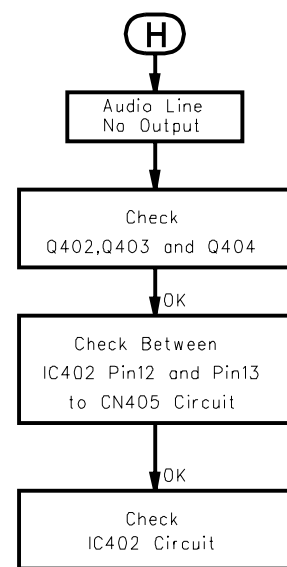
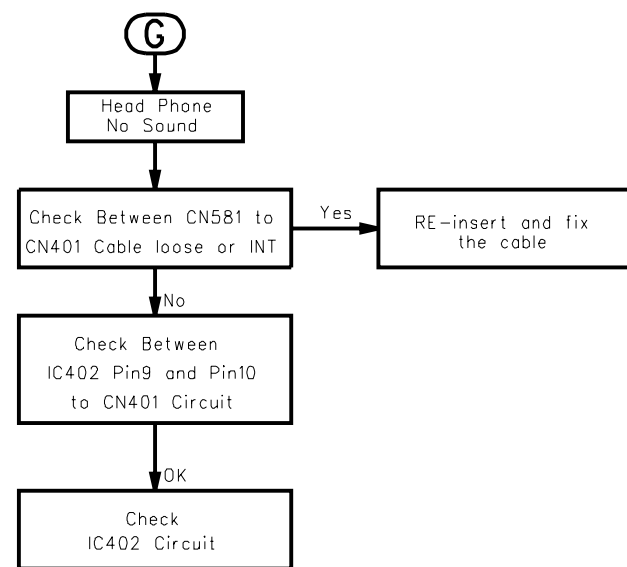
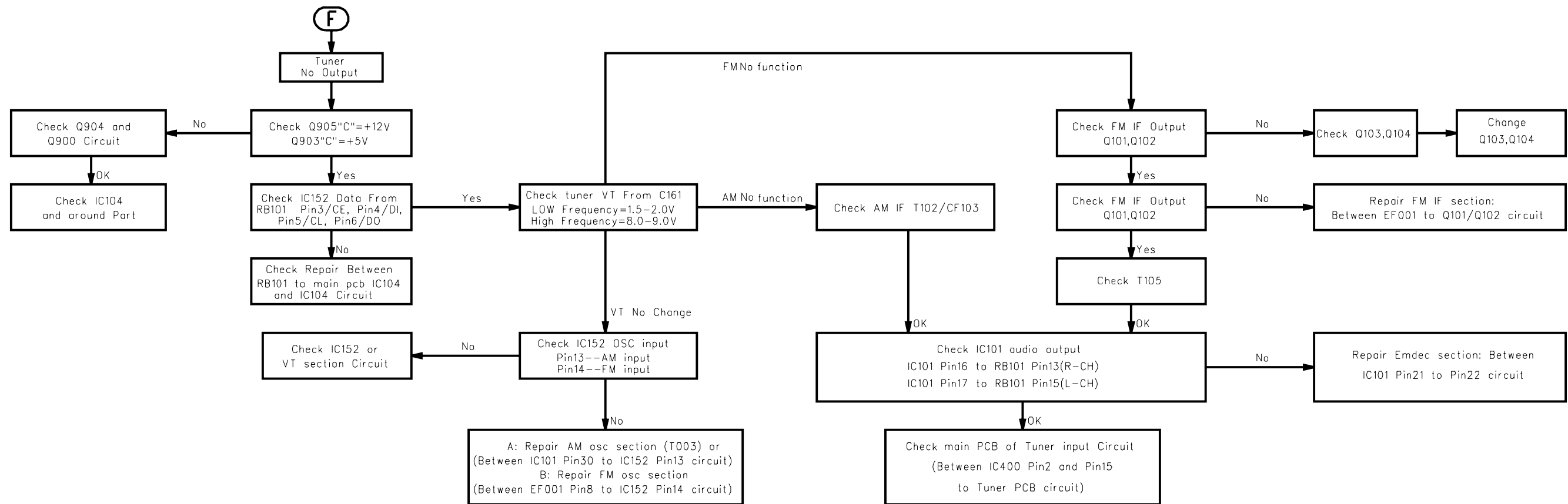
Note:

If the firmware has been changed, etc., we will use Service News, etc. to report on how to obtain new firmware data and create an upgraded disc.



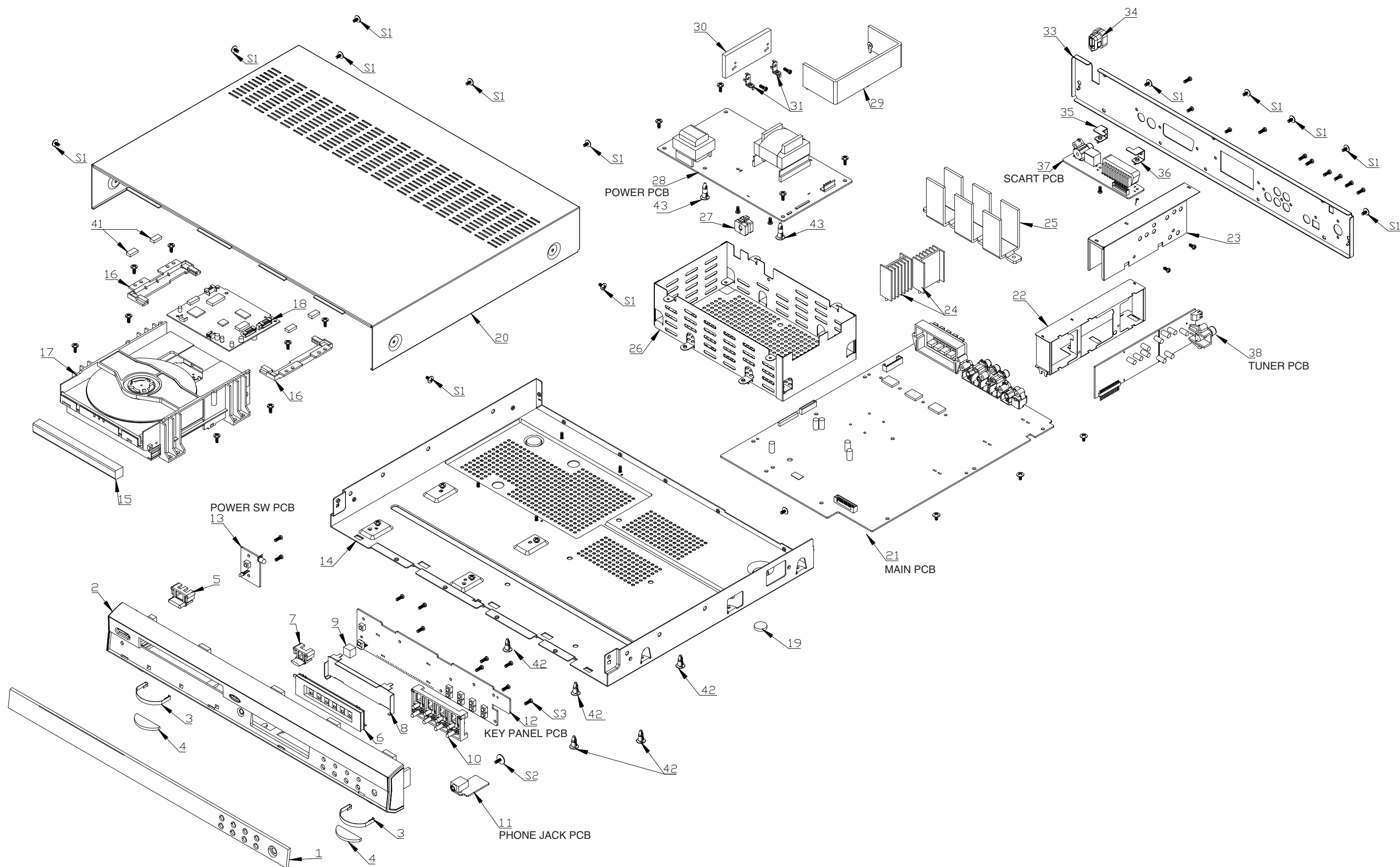
MAIN UNIT REPAIR CHART

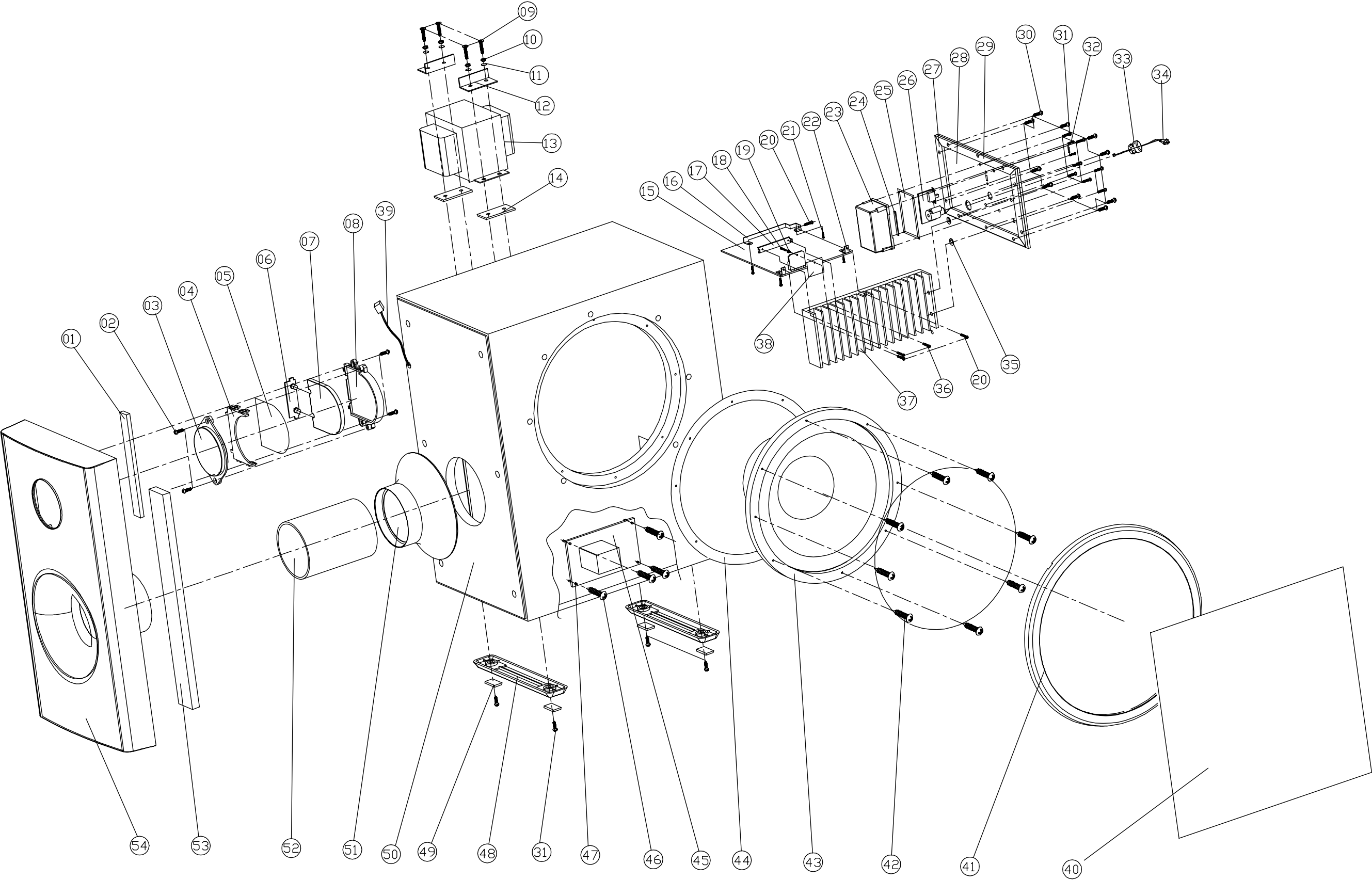




2 EXPLODED VIEW

2-1 MAIN UNIT





3 REPLACEMENT PARTS LIST

3-1 MAIN UNIT SECTION

3-1-1 MECHANICAL PARTS LIST

MECHANISM SECTION

No	Part No	Description
1	BPN100086-0001	DISPLAY WINDOW
2	BPF104014-0001	FRONT PANEL
3	GAL000092-0001	FOOT RING
4	DUF000024-0001	FRONT FOOT
5	BPK106028-0001	POWER KNOB
6	KVL0015-001	VFK
7	BPK108056-0001	OP/CL KNOB
8	GTP100008-0001	VFD BKT
9	IVE100176-0001	SPONGE
10	BPK108056-0001	FUNCTION KEY
11	APE0216C001	PHONE JACK
12	APE0223C001	CONTROL PCB
13	APE0202C003	POWER-SW PCB
14	GSE100164-0001	BOTTON CAB
15	BPD101040-0001	DOOR
16	BPH100059-0001	SV-PCB-HOLDER
17	WVD100004-0001	DVD LOADER
18	WPC0310-001	SV-PCB ASS`Y
19	BRB00049-0004	BTM-FOOT
20	GSE100163-0001	TOP COVER
21	APE0203C001	MAIN PCB
22	GTP100006-0001	TUNER-SHIELD COVER
23	GTP100007-0001	TUNER-SHIELD BASE
24	GAL000104-0002	IC KEATSINK
25	GAL100103-0001	POWER-IC HTSK
26	GSE100165-0001	POWER CAB
27	DBU001004-0010	AC-CORD HOLDER
28	APE0202C001	POWER PCB
29	GAL100187-0001	HEATSINK-1
30	GAL100188-0001	HEATSINK-2
31	GSE100155-0001	HESTSINK BKT
33	GSE100162-0001	REAR PANEL
34	DBU001005-0020	AC-CORD HOLDER
35	GSE100152-0001	SCART-PCB HOLDER-L
36	GSE100153-0001	SCART-PCB HOLDER-R
37	APE0193C001	SCART PCB
38	APE0187C001	TUNER PCB
39	BRB100038-0001	CABLE CLIP RUBBER
40	BRB100039-0001	CABLE CLIP RUBBER
41	BRB100049-0001	RUBBER
42	DSS100018-0001	SPACER
43	DSS100005-0001	SPACER
S3	HSP140054-1080	SCREW
S2	HSW140054-1081	SCREW
S1	HST143048-1060	SCREW

ACCESSORIES

No	Part No	Description
1	VTA400003-0010	1000mm 1007#24 TC W/TERMINAL
2	VTA100001-0020	LOOP ANT SHINTA PS-100
3	AIR151009-0033	51 KEY Dr351 HITACHI
4	ESB015003-3021	SKT SPK ASS`Y
5	FBY064015-0003	BATTERY UM-4 1.5V
6	ESB015003-3021	SAT SPK AY 50W 8 OHM (5 P CS)
7	FBY064015-0003	BATTERY Di0x44mm UM-4 1.5V
8	VSC000002-0010	SCART CABL SC/G-SC/G,1000mm
9	VIC101002-0030	RCA CABLE 5000mm BLACK D2.44mm
10	YOM100150-0001	OWN MANUAL 8 LANGUAGE
11	VRC202001-0040	RCA CABLE 1200mm BLK 0D2.6x5.2
12	VRC101008-0010	RCA CABLE 1200mm BLK 0D2.6mm

3-1-2 ELECTRICAL PARTS LIST

TUNER PCB SECTION

Misellaneous		
	LVT100187-0001	TUNER PCB
CF101	JFT005002-0030	10.7 MHZ
CF102	JFT005002-0040	10.7 MHZ
CF103	JFT005001-0030	450 KHZ
CN001	CCN250000-0502	S2B-XH-A 2 PIN
EF001	WTP000011-0001	TUNER PACK
J101	XJP220000-0001	22 GA TINNED
J102	XJP220000-0001	22 GA TINNED
J103	XJP220000-0001	22 GA TINNED
J104	XJP220000-0001	22 GA TINNED
J105	XJP220000-0001	22 GA TINNED
J106	XJP220000-0001	22 GA TINNED
J107	XJP220000-0001	22 GA TINNED
J108	XJP220000-0001	22 GA TINNED
J109	XJP220000-0001	22 GA TINNED
J110	XJP220000-0001	22 GA TINNED
J111	XJP220000-0001	22 GA TINNED
J112	XJP220000-0001	22 GA TINNED
J113	XJP220000-0001	22 GA TINNED
J114	XJP220000-0001	22 GA TINNED
J115	XJP220000-0001	22 GA TINNED
J116	XJP220000-0001	22 GA TINNED
J117	XJP220000-0001	22 GA TINNED
J118	XJP220000-0001	22 GA TINNED
J119	XJP220000-0001	22 GA TINNED
J120	XJP220000-0001	22 GA TINNED
J121	XJP220000-0001	22 GA TINNED
J122	XJP220000-0001	22 GA TINNED
J123	XJP220000-0001	22 GA TINNED
JK001	CJA003002-2010	FEMALE TYPE ID1.44mm
L102	SAN001600-1000	10 uH 10%
L103	SIL106003-3930	39 mH 10% D6xH11xP5mm
L104	SAN001600-1000	10 uH 10%
L151	SAN001600-1000	10 uH 10%
L152	SAN001600-1000	10 uH 10%
L153	SAN001600-1000	10 uH 10%
L154	SAN001600-1000	10 uH 10%
RB101	CCP200010-0715	15 PIN P=2.0mm 90'
RB102A	VSW243BB2-0160	160mm BLACK TO RB102B
RB103	CCP200010-0703	3 PIN P=2.0mm 90'
VD001	RHV100149-0001	TOSHIBA 1SV149B
VD002	RHV100149-0001	TOSHIBA 1SV149B
VR102	QCF015020-3920	3.9K OHM 1/10W 5%
XL151	JQC013101-4351	4.332 MHZ HC-49/U
XL152	JQC013101-4550	4.5000 MHZ HC-49/U

Capacitor

C001	PYL410370-3300	33 pF 50V 5%
C003	PYL439570-2230	0.022 uF 50V 20%
C005	PRD113870-5090	5 pF 50V +-0.25pF
C006	PYL456470-1040	0.1 uF 50V 10%
C007	PRD339670-1040	0.1 uF 50V +80-20%
C008	PYL456470-2220	0.0022uF 50V 10%
C009	PYL439570-2230	0.022 uF 50V 20%
C010	PYL439570-2230	0.022 uF 50V 20%
C011	PYL439570-2230	0.022 uF 50V 20%
C011	PRD249670-2230	0.022 uF 50V +80-20%
C012	PRE939540-4700	47 uF 16V 20%

C013	PYL410370-8090	8 pF 50V 5%
C014	PVP026370-5610	560pF 50V 5%
C015	PRD249670-2230	0.022 uF 50V +80-20%
C016	PYL456470-1040	0.1 uF 50V 10%
C101	PRD249670-2230	0.022 uF 50V +80-20%
C104	PRE939530-3300	33 uF 10V 20%
C105	PYL439570-2230	0.022 uF 50V 20%
C106	PRE939530-3300	33 uF 10V 20%
C107	PVE939540-2200	22 uF 16V 20%
C108	PYL456470-1040	0.1 uF 50V 10%
C109	PRE939540-1000	10 uF 16V 20%
C110	PYL410370-2010	200 pF 50V 5%
C111	PYL410370-3000	30 pF 50V 5%
C112	PYL439570-4730	0.047 uF 50V 20%
C113	PVE939540-4700	47 uF 16V 20%
C114	PYL439570-4730	0.047 uF 50V 20%
C115	PYL439570-4730	0.047 uF 50V 20%
C116	PYL439570-2230	0.022 uF 50V 20%
C117	PVE939540-4700	47 uF 16V 20%
C118	PRE939570-1090	1 uF 50V 20%
C119	PRD235470-1520	1500 pF 50V 10%
C120	PYL410370-2200	22 pF 50V 5%
C122	PYL439570-2230	0.022 uF 50V 20%
C123	PRE939570-1090	1 uF 50V 20%
C124	PRE939570-4780	0.47 uF 50V 20%
C125	PRE939540-1000	10 uF 16V 20%
C126	PRE939540-1000	10 uF 16V 20%
C127	PRE939570-1090	1 uF 50V 20%
C129	PYL456470-2220	0.0022uF 50V 10%
C130	PYL456470-2220	0.0022uF 50V 10%
C131	PYL456470-4720	0.0047 uF 50V 10%
C132	PYL456470-4720	0.0047 uF 50V 10%
C133	PYL439570-2230	0.022 uF 50V 20%
C134	PYL439570-2230	0.022 uF 50V 20%
C135	PYL456470-1520	1500 pF 50V 10%
C136	PYL456470-1520	1500 pF 50V 10%
C137	PYL456470-1530	0.015 uF 50V 10%
C138	PYL456470-1530	0.015 uF 50V 10%
C139	PRE939540-4790	4.7 uF 16V 20%
C140	PRE939540-4790	4.7 uF 16V 20%
C141	PYL456470-2220	0.0022uF 50V 10%
C142	PYL456470-2220	0.0022uF 50V 10%
C143	PRE939540-4700	47 uF 16V 20%
C144	PYL439570-2230	0.022 uF 50V 20%
C145	PYL439570-2230	0.022 uF 50V 20%
C151	PRE939540-2290	2.2 uF 16V 20%
C152	PYL410370-5610	560 pF 50V 5%
C153	PYL410370-3310	330 pF 50V 5%
C154	PRD113370-3300	33 pF 50V 5%
C155	PRD113370-3300	33 pF 50V 5%
C156	PRE939540-4700	47 uF 16V 20%
C157	PRE939540-4700	47 uF 16V 20%
C161	PYL456470-1040	0.1 uF 50V 10%
C163	PRE939540-4700	47 uF 16V 20%
C164	PRD249670-2230	0.022 uF 50V +80-20%
C165	PYL410370-1020	1000 pF 50V 5%
C166	PVE939540-3390	3.3 uF 16V 20%
C167	RD249670-2230	0.022 uF 50V +80-20%
C169	PYL439570-2230	0.022 uF 50V 20%
C170	PYL439570-2230	0.022 uF 50V 20%
C171	PVE939540-4700	47 uF 16V 20%

C173	PRD113370-2700	27 pF 50V 5%
C174	PRD113370-2700	27 pF 50V 5%

Diode

D001	RAD114148-0010	DIODE SW
D002	RAD114148-0010	DIODE SW
D003	RAD114148-0010	DIODE SW
D004	RAD114148-0010	DIODE SW
D101	RAD114148-0010	DIODE SW

Intergrated Circuit

IC101	RCI001837-0001	IC 30 PIN LA1837 SANYO151
IC151	RCI001923-0001	IC 16 PIN BUI1923F
IC152	RCI072131-0001	IC 20 PIN LC72131M SANYO

Transistor

Q001	RAM200192-1001	2SK192A-Y/GR
Q101	RAN201675-0001	2SC1675L NEC
Q102	RAN201675-0001	2SC1675L NEC
Q103	RAP200733-0001	2SA733Q,P NEC
Q104	RAN200945-0001	2SC945P
Q105	RAN200945-0001	2SC945P

Resistor

R001	QCF015020-6820	6.8K OHM 1/10W 5%
R002	QCF015020-1040	100K OHM 1/10W 5%
R003	QCF015020-1040	100K OHM 1/10W 5%
R004	QCF015020-1020	1K OHM 1/10W 5%
R005	QAF065000-3310	330 OHM 1/6W 5% CF
R006	QCF015020-1010	100 OHM 1/10W 5%
R007	QAF065000-1040	100K OHM 1/6W 5% CF
R008	QAF065000-1010	100 OHM 1/6W 5% CF
R009	QCF015020-1020	1K OHM 1/10W 5%
R101	QCF015020-2740	270K OHM 1/10W 5%
R102	QCF015020-4700	47 OHM 1/10W 5%
R103	QCF015020-3310	330 OHM 1/10W 5%
R104	QAF065000-3310	330 OHM 1/6W 5% CF
R105	QAF065000-1010	100 OHM 1/6W 5% CF
R106	QCF015020-2740	270K OHM 1/10W 5%
R107	QCF015020-1000	10 OHM 1/10W 5%
R108	QAF065000-1030	10K OHM 1/6W 5% CF
R109	QCF015020-1040	100K OHM 1/10W 5%
R110	QAF065000-4700	47 OHM 1/6W 5% CF
R112	QCF015020-3320	3.3K OHM 1/10W 5%
R113	QCF015020-5620	5.6K OHM 1/10W 5%
R114	QCF015020-3310	330 OHM 1/10W 5%
R115	QCF015020-3320	3.3K OHM 1/10W 5%
R116	QCF015020-1020	1K OHM 1/10W 5%
R117	QCF015020-1840	180K OHM 1/10W 5%
R118	QCF015020-4700	47 OHM 1/10W 5%
R119	QCF015020-5100	51 OHM 1/10W 5%
R122	QCF015020-3920	3.9K OHM 1/10W 5%
R123	QAF065000-4720	4.7K OHM 1/6W 5% CF
R124	QCF015020-3020	3K OHM 1/10W 5%
R125	QCF015020-1020	1K OHM 1/10W 5%
R126	QCF015020-4730	47K OHM 1/10W 5%
R129	QCF015020-4720	4.7K OHM 1/10W 5%
R130	QCF015020-4720	4.7K OHM 1/10W 5%
R131	QCF015020-6820	6.8K OHM 1/10W 5%
R132	QCF015020-6820	6.8K OHM 1/10W 5%

R133	QCF015020-2220	2.2K OHM 1/10W 5%
R134	QCF015020-2220	2.2K OHM 1/10W 5%
R135	QCF015020-4730	47K OHM 1/10W 5%
R136	QCF015020-4730	47K OHM 1/10W 5%
R137	QCF015020-2720	2.7K OHM 1/10W 5%
R138	QCF015020-1030	10K OHM 1/10W 5%
R139	QCF015020-5610	560 OHM 1/10W 5%
R151	QCF015020-1040	100K OHM 1/10W 5%
R151	QCF015020-1050	1M OHM 1/10W 5%
R154	QCF015020-1040	100K OHM 1/10W 5%
R154	QCF015020-1050	1M OHM 1/10W 5%
R155	QAF065000-1020	1K OHM 1/6W 5% CF
R156	QCF015020-3320	3.3K OHM 1/10W 5%
R157	QCF015020-1020	1K OHM 1/10W 5%
R158	QCF015020-3320	3.3K OHM 1/10W 5%
R159	QCF015020-4720	4.7K OHM 1/10W 5%
R160	QCF015020-4720	4.7K OHM 1/10W 5%
R161	QCF015020-4720	4.7K OHM 1/10W 5%
R162	QCF015020-4720	4.7K OHM 1/10W 5%
R163	QCF015020-4720	4.7K OHM 1/10W 5%
R165	QCF015020-4720	4.7K OHM 1/10W 5%
R167	QCF015020-2230	22K OHM 1/10W 5%
R168	QCF015020-2230	22K OHM 1/10W 5%

Coils

T001	SIL013012-0010	SUMIDA S-8N
T002	SIL013009-0011	4-6:10T 1-3:86T
T003	SIL013010-0012	108uH (796 KHz) COIL
T101	SIL016001-0010	78 KHz
T102	SIF010001-0040	455KHz Q=130
T103	SIL016001-0020	16 KHz
T104	SIL016001-0020	16 KHz
T105	SIF020001-0050	10.7MHz Q=60 MIN
TC001	MVC001001-0010	3 - 10 PF NP0
TC002	MVC001002-0010	4.2 - 20 PF N450

SCART PCB SECTION

Misellaneous

	LVA100250-0001	SCART PCB
FB137	SFB001001-0030	DIA3.5x6mm
FB138	SFB001001-0030	DIA3.5x6mm
FB139	SFB001001-0030	DIA3.5x6mm
FB140	SFB001001-0030	DIA3.5x6mm
FB141	SFB001001-0030	DIA3.5x6mm
FB142	SFB001001-0030	DIA3.5x6mm
FB144	SFB001001-0030	DIA3.5x6mm
FB145	SFB001001-0030	DIA3.5x6mm
FB146	SFB001001-0030	DIA3.5x6mm
FB147	SFB001001-0030	DIA3.5x6mm
JK101	CSS021001-1020	21PIN PITCH=3.81mm
JK103	CJR001301-0030	1P YELLOW W/GND
JK401	CJD004201-1020	4 PIN
JMP1	XJP220000-0001	22 GA TINNED
RB2001	VFL511245-0800	5P 80mm 2468#26 BLK
RB2002	VSW545455-0250	BLACK UL2854#30 5PIN
RB402	VSW324122-0220	3P 220mm UL2547#28 GRY TO CN402

Capacitor

C1001	PME039570-1000	10 uF 50V 20%
C1002	PME039570-1000	10 uF 50V 20%
C1003	PRD113370-1500	15 pF 50V 5%
C1004	PRD113370-1500	15 pF 50V 5%
C1005	PRD113370-1500	15 pF 50V 5%
C1006	PRD113370-1500	15 pF 50V 5%
C1007	PRD113370-1500	15 pF 50V 5%
C1008	PRD113370-1500	15 pF 50V 5%
C1009	PRD113370-1500	15 pF 50V 5%
C1010	PRD113370-1500	15 pF 50V 5%
C1011	PRD113370-1500	15 pF 50V 5%

Diode

ZD1101	RAZ005004-0020	3.8-4.0V 0.5W
ZD1102	RAZ005004-0020	3.8-4.0V 0.5W
ZD1103	RAZ005004-0020	3.8-4.0V 0.5W
ZD1104	RAZ005004-0020	3.8-4.0V 0.5W
ZD1105	RAZ005004-0020	3.8-4.0V 0.5W
ZD1106	RAZ005004-0020	3.8-4.0V 0.5W

Resistor

R1001	QAF065000-1020	1K OHM 1/6W 5%	CF
R1002	QAF065000-1020	1K OHM 1/6W 5%	CF
R1003	QAF065000-6830	68K OHM 1/6W 5%	CF

KEY PANEL PCB SECTION

Misellaneous

	LVU100223-0001	PCB 94V0
	LVU100223-0011	KEY PCB
	LVU100223-0021	LED PCB
	LVU100223-0031	PHONE PCB 94V0
	IVE100m176-0001	L10xW10xT9mm BLK For SN251
TA201	MAW060001-0010	SKHVBE3520
TA202	MAW060001-0010	SKHVBE3520
TA203	MAW060001-0010	SKHVBE3520
TA204	MAW060001-0010	SKHVBE3520
TA205	MAW060001-0010	SKHVBE3520
TA206	MAW060001-0010	SKHVBE3520
TA207	MAW060001-0010	SKHVBE3520
TA208	MAW060001-0010	SKHVBE3520
TA209	MAW060001-0010	SKHVBE3520
TA210	MAW060001-0010	SKHVBE3520
JK302	CJM035002-3030	PHONE JACK
JMP1	XJP220000-0001	22 GA TINNED
JMP2	XJP220000-0001	22 GA TINNED
JMP3	XJP220000-0001	22 GA TINNED
JMP4	XJP220000-0001	22 GA TINNED
JMP5	XJP220000-0001	22 GA TINNED
JMP6	XJP220000-0001	22 GA TINNED
JMP7	XJP220000-0001	22 GA TINNED
JMP8	XJP220000-0001	22 GA TINNED
JMP9	XJP220000-0001	22 GA TINNED
JMP10	XJP220000-0001	22 GA TINNED
JMP11	XJP220000-0001	22 GA TINNED
JMP12	XJP220000-0001	22 GA TINNED
JMP13	XJP220000-0001	22 GA TINNED
JMP14	XJP220000-0001	22 GA TINNED
JMP15	XJP220000-0001	22 GA TINNED
JMP16	XJP220000-0001	22 GA TINNED
JMP17	XJP220000-0001	22 GA TINNED
JMP18	XJP220000-0001	22 GA TINNED
JMP19	XJP220000-0001	22 GA TINNED
JMP20	XJP220000-0001	22 GA TINNED
JMP21	XJP220000-0001	22 GA TINNED
JMP22	XJP220000-0001	22 GA TINNED
JMP23	XJP220000-0001	22 GA TINNED
JMP25	XJP220000-0001	22 GA TINNED
JMP26	XJP220000-0001	22 GA TINNED
JMP27	XJP220000-0001	22 GA TINNED
JMP28	XJP220000-0001	22 GA TINNED
JMP29	XJP220000-0001	22 GA TINNED
JMP30	XJP220000-0001	22 GA TINNED
JMP31	XJP220000-0001	22 GA TINNED
JMP32	XJP220000-0001	22 GA TINNED
JMP34	XJP220000-0001	22 GA TINNED
JMP35	XJP220000-0001	22 GA TINNED
JMP38	XJP220000-0001	22 GA TINNED
LD251	KED600005-0020	LED 5 DIA HI BLUE
RB105A	VFLF1124B-1600	15P 160mm UL2468#26 BLK
RB105B	VFLF1124B-1600	15P 160mm UL2468#26 BLK
RB201	VFL41155-2000	4P 200mm UL2468#26BLK To CN201
RB202	VFL31124B-1200	3P 120mm BLK
RB401	VFL51124B-0800	5P 80mm BLK
SN251	RHO200038-0001	IRT SENSOR
XL251	JQC023100-4050	4 MHZ HC-49US 30ppm

Capacitor

C251	PRD249670-2230	0.022 uF 50V +80-20%
C252	PVE839530-1010	100 uF 10V 20%
C253	PVD113580-1500	15pF 50V 5% NPO
C254	PVD113580-1500	15pF 50V 5% NPO
C255	PVD113580-1500	15pF 50V 5% NPO
C256	PVD113370-4700	47 pF 50V 5%
C257	PVD113580-1500	15pF 50V 5% NPO
C258	PVD113580-1500	15pF 50V 5% NPO
C259	PVE839540-1000	10 uF 16V 20%
C260	PRD249670-2230	0.022 uF 50V +80-20%
C261	PVE839530-1010	100 uF 10V 20%
C262	PRD339670-1040	0.1 uF 50V +80-20%
C263	PVE839530-1010	100 uF 10V 20%
C264	PME039560-1010	100 uF 35V 20%
C265	PVE839530-1010	100 uF 10V 20%
C266	PRD249670-2230	0.022 uF 50V +80-20%

Diode

D251	RAD114148-0010	DIODE SW
D252	RAD114148-0010	DIODE SW
D253	RAD114148-0010	DIODE SW
D254	RAD114148-0010	DIODE SW
DP251	KLV000015-0010	74x13mm
ZD251	RAZ005005-0030	5.0-5.2V 0.5W
ZD252	RAZ005005-0030	5.0-5.2V 0.5W
ZD253	RAZ005005-0030	5.0-5.2V 0.5W

Intergranted Circuit

IC251	RCI006311-0001	IC 52 PIN PT6311(PTC0)
IC252	RHI000745-0006	IC 18 PIN CF745 SOFTWARE-F

Transistor

Q251	RAP200733-0001	2SA733Q,P NEC
Q252	RAP200733-0001	2SA733Q,P NEC
Q253	RAP200733-0001	2SA733Q,P NEC
Q254	RAN200945-0001	2SC945P
Q255	RAN200945-0001	2SC945P

Resistor

R213	QAF065000-4720	4.7K OHM 1/6W 5% CF
R251	QAF065000-1030	10K OHM 1/6W 5% CF
R252	QAF065000-1030	10K OHM 1/6W 5% CF
R253	QAF065000-1030	10K OHM 1/6W 5% CF
R254	QAF065000-1030	10K OHM 1/6W 5% CF
R255	QAF065000-1010	100 OHM 1/6W 5% CF
R256	QAF065000-1010	100 OHM 1/6W 5% CF
R257	QAF065000-1010	100 OHM 1/6W 5% CF
R259	QAF065000-1030	10K OHM 1/6W 5% CF
R260	QAF065000-1030	10K OHM 1/6W 5% CF
R261	QAF065000-1030	10K OHM 1/6W 5% CF
R262	QAF065000-1030	10K OHM 1/6W 5% CF
R263	QAF065000-2220	2.2K OHM 1/6W 5% CF
R264	QAF065000-2220	2.2K OHM 1/6W 5% CF
R265	QAF065000-2220	2.2K OHM 1/6W 5% CF
R266	QAF065000-1040	100K OHM 1/6W 5% CF
R267	QAF065000-2230	22K 1/6W 5% CF
R268	QAF065000-1040	100K OHM 1/6W 5% CF
R269	QAF065000-2230	22K 1/6W 5% CF
R270	QAF065000-1040	100K OHM 1/6W 5% CF
R271	QAF065000-2230	22K 1/6W 5% CF

R272	QAF065000-1010	100 OHM 1/6W 5% CF
R273	QAF065000-1220	1.2K OHM 1/6W 5% CF
R274	QAF065000-2210	220 OHM 1/6W 5% CF
R275	QAF065000-1030	10K OHM 1/6W 5% CF
R276	QAF065000-1030	10K OHM 1/6W 5% CF
R277	QAF065000-5630	56K OHM 1/6W 5% CF
R278	QAF065000-1030	10K OHM 1/6W 5% CF
R279	QAF065000-1030	10K OHM 1/6W 5% CF
R281	QAF065000-1030	10K OHM 1/6W 5% CF
R282	QAF065000-1030	10K OHM 1/6W 5% CF
R283	QAF065000-1030	10K OHM 1/6W 5% CF
R284	QAF065000-1030	10K OHM 1/6W 5% CF
R285	QAF065000-1030	10K OHM 1/6W 5% CF
R286	QAF065000-1030	10K OHM 1/6W 5% CF
R288	QAF065000-1520	1.5K OHM 1/6W 5% CF
R289	QAF065000-2220	2.2K OHM 1/6W 5% CF
R290	QAF065000-1030	10K OHM 1/6W 5% CF
R291	QAF065000-2210	220 OHM 1/6W 5% CF
R292	QAF065000-4730	47K OHM 1/6W 5% CF
R293	QAF065000-1010	100 OHM 1/6W 5% CF

POWER PCB SECTION

Misellaneous

	LCP100202-0001	POWER PCB
	RAD114148-0010	DIODE SW
	FBY064015-0003	D10x44mm UM-4 1.5V
	VSC000002-0010	SCART CABL
	VRC101002-0030	5000mm BLACK D2.44mm
	CFC011000-1001	FUSE CLIP For F901x2
	VWA310007-0007	4P 600mm 1015#18 For RB905
BR901	RHD208080-0010	BRIDGE
CN902	CCN396021-0104	CONNECTOR
F901	KSA020315-0030	3.15A 250V SLOW
L901	SIL106001-6090	6uH 10.5Ts 6A
L902	SIL106002-6090	6uH 13.5Ts 2UEW
L903	SIL106002-6090	6uH 13.5Ts 2UEW
P901	VWR0333BB-0060	22 GA 60 mm RED 4-4 TO P902
P903	VWR0333BB-0060	22 GA 60 mm RED 4-4TO P904
RB904	VFL81131B-1400	8P 140mm BLK
RB906	VFL31124B-2200	3P 220mm BLK
RL901	MRL012004-0011	RELAY
RT901	RNT005130-5090	5 OHM 5A DIA=13 mm
SN901	RHI000615-0001	SFH615A-3
T901	JFT006008-0020	AC FILTER
T902	TTB123011-0020	230V EI-35
T903	TSC100001-0010	EE-42 50W

Capacitor

C901	PVX2705F0-2240	0.22uF 250V 20% CAMEL
C902	PVX2705F0-2240	0.22uF 250V 20% CAMEL
C903	PJE0995E0-2210	220 uF 200V 20% 105C
C904	PJE0995E0-2210	220 uF 200V 20% 105C
C905	PVY1705K0-2222	0.0022uF 400V 20%
C906	PVY1705K0-2222	0.0022uF 400V 20%
C907	PVD2355Q0-1030	0.01 uF 1KV 20%
C908	PRD5564Q0-4710	470 pF 1KV 10% 125 C
C909	PVY1705K0-2222	0.0022uF 400V 20%
C910	PVD2355Q0-1020	0.001 uF 1KV 20%
C911	PRL048570-1050	1 uF 50V 20%
C912	PRD249670-1040	0.1 uF 50V +80-20%
C913	PME039550-4700	47 uF 25V 20%
C914	PME039550-2210	220 uF 25V 20%
C919	PRD235470-4720	4700 pF 50V 10%
C920	PRD249670-1040	0.1 uF 50V +80-20%
C925	PVD2355Q0-1020	0.001 uF 1KV 20%
C926	PME039570-1090	1 uF 50V 20%
C929	PVE039550-1020	1000 uF 25V 20% 85 C
C930	PRD235470-1020	1000 pF 50V 10%
C931	PVE039540-1020	1000 uF 16V 20% 85 C
C932	PVE039540-1020	1000 uF 16V 20% 85 C
C933	PRD235470-1020	1000 pF 50V 10%
C938	PRD235470-1020	1000 pF 50V 10%
C939	PVE039540-1020	1000 uF 16V 20% 85 C
C940	PVE039540-1020	1000 uF 16V 20% 85 C
C941	PRD235470-1020	1000 pF 50V 10%
C945	PVD2354Q0-4710	470 pF 1KV 10%
C947	PVE039570-1020	1000 uF 50V 20%
C948	PVE039570-1020	1000 uF 50V 20%
C949	PRD235470-1020	1000 pF 50V 10%
C950	PRD235470-1030	0.01 uF 50V 10%
C951	PRD249670-1040	0.1 uF 50V +80-20%

C952	PVE039570-1020	1000 uF 50V 20%
C962	PRD249670-1040	0.1 uF 50V +80-20%
C963	PVY1705K0-2222	0.0022uF 400V 20%
C964	PVY1705K0-2222	0.0022uF 400V 20%
C965	PVD2355Q0-1020	0.001 uF 1KV 20%
C966	PVD2355Q0-1020	0.001 uF 1KV 20%
C967	PVD2355Q0-1020	0.001 uF 1KV 20%
C968	PVY1705K0-2222	0.0022uF 400V 20%
C969	PRD235470-1030	0.01 uF 50V 10%
C970	PRD249670-1040	0.1 uF 50V +80-20%
C972	PME039570-1000	10 uF 50V 20%

Diode

D901	RAD100026-0010	DIODE BYV26D PHILIPS
D902	RAD114148-0010	DIODE SW
D903	RAD114001-0010	DIODE
D904	RAD114148-0010	DIODE SW
D905	RHD208020-0010	BRIDGE
D906	RHD115822-0010	1N5822 3A 45V
D906x2	DSL001001-0100	SLEEING
D907	RAD100204-0010	HER204 2A 300V 50nS
D908	RAD100104-0010	HER104 1A 300V 50nS
D909	RAD114148-0010	DIODE SW
D910	RAD114148-0010	DIODE SW
ZD901	RAD160200-0010	P6KE200A
ZD902	RAZ005006-0020	5.6-5.9V 0.5W
ZD903	RAZ005007-0020	6.9-7.2V 0.5W

Intergranted Circuit

IC903	RHI000249-0001	IC 6 PIN TOP 249 250W
IC904	RHI004310-0001	IC 3 PIN TI431

Transistor

Q903	RAN202222-0001	2N2222A
Q904	RHN000120-0001	TIP120
Q910	RAM207000-1001	2N7000 60V 200mA
Q912	RAM207000-1001	2N7000 60V 200mA
Q913	RAN202001-0001	2SC2001L NEC

Resistor

R901	QAF025000-5640	560K OHM 1/2W 5% CF
R901	QAF025000-5640	560K OHM 1/2W 5% CF
R902	QAF025000-5640	560K OHM 1/2W 5% CF
R902	QAF025000-5640	560K OHM 1/2W 5% CF
R903	QAF025000-1050	1M OHM 1/2W 5% CF
R904	QAF025000-1050	1M OHM 1/2W 5% CF
R905	QGN205000-6830	68K OHM 2W 5% W/KINK
R906	QGN205000-6830	68K OHM 2W 5% W/KINK
R907	QAF065000-4790	4.7 OHM 1/6W 5% CF
R908	QAF065000-6890	6.8 OHM 1/6W 5%
R919	QAF065000-1030	10K OHM 1/6W 5% CF
R919	QAF065000-1030	10K OHM 1/6W 5% CF
R920	QAF065000-1020	1K OHM 1/6W 5% CF
R921	QAF065000-1020	1K OHM 1/6W 5% CF
R922	QAF065000-5630	56K OHM 1/6W 5% CF
R923	QAM061000-3002	30K OHM 1/6W 1%
R924	QAF065000-2020	2K OHM 1/6W 5% CF
R925	QAF061000-2701	2.7K OHM 1/6W 1%
R928	QAS025101-1210	120 OHM 1/2W
R931	QAF065000-7500	75 OHM 1/6W 5% CF
R932	QAF065000-2020	2K OHM 1/6W 5% CF

R941	QAF065000-4730	47K OHM 1/6W 5% CF
R942	QAF065000-2230	22K 1/6W 5% CF
R943	QAF065000-1030	10K OHM 1/6W 5% CF
R945	QAF065000-1030	10K OHM 1/6W 5% CF
R946	QAF065000-1030	10K OHM 1/6W 5% CF
R947	QAF065000-4730	47K OHM 1/6W 5% CF
R948	QAF065000-2230	22K 1/6W 5% CF
R951	QAF045000-1010	100 OHM 1/4W 5% CF
R952	QAS025100-1090	1 OHM 1/2W 5%

Jumper

JW903	XJP220000-0001	22 GA TINNED
JW904	XJP220000-0001	22 GA TINNED
JW905	XJP220000-0001	22 GA TINNED
JW906	XJP220000-0001	22 GA TINNED
JW907	XJP220000-0001	22 GA TINNED
JW908	XJP220000-0001	22 GA TINNED
JW909	XJP220000-0001	22 GA TINNED
JW910	XJP220000-0001	22 GA TINNED
JW911	XJP220000-0001	22 GA TINNED

MAIN PCB SECTION

Misellaneous		
	LFM100203-0001	MAIN PCB
	LFM100203-0011	MAIN PCB
	VSW5154B5-0280	5P 280mm 2854#30 BRN
CN1	CCN200000-0103	3 PIN PITCH=2.0mm
CN2	CCN200000-0103	3 PIN PITCH=2.0mm
CN102	CCH100060-0216	16 PIN TO2-3100-1160
CN103	CCH100010-0226	13x2P FFC P1xL3mm
CN105	CCN200000-0115	15 PIN PITCH=2.0mm
CN401	CCN200000-0105	5 PIN PITCH=2.0mm
CN903	CCN250000-0108	B8B-XH-A 8 PIN
CN904	CCN396020-0104	4 PIN CL3962WVO
CN905	VFL611245-1300	6P 130mm BLK
FB1	SFB001001-0030	DIA3.5x6mm
FB100	SCB008050-1010	100 OHM AT 100MHZ
FB101	SCB008050-1010	100 OHM AT 100MHZ
FB103	SFB001001-0030	DIA3.5x6mm
FB104	SFB001001-0030	DIA3.5x6mm
FB500	SFB001001-0030	DIA3.5x6mm
FB502	SCB008050-1010	100 OHM AT 100MHZ
FB503	SCB008050-1010	100 OHM AT 100MHZ
FB900	SFB001001-0030	DIA3.5x6mm
JK401	CJT100001-0001	JACK
JK402	CJR001301-0010	1P BLACK W/GEND PIN
JK403	CJR001301-0010	1P BLACK W/GEND PIN
JK405	CJR004101-0010	4P WHT-WHT/RED-RED
JK500	CJS010101-0020	10P W/SPRING
JMP1	XJP220000-0001	22 GA TINNED
JMP2	XJP220000-0001	22 GA TINNED
JMP3	XJP220000-0001	22 GA TINNED
JMP4	XJP220000-0001	22 GA TINNED
JMP5	XJP220000-0001	22 GA TINNED
JMP6	XJP220000-0001	22 GA TINNED
JMP7	XJP220000-0001	22 GA TINNED
JMP8	XJP220000-0001	22 GA TINNED
JMP9	XJP220000-0001	22 GA TINNED
JMP10	XJP220000-0001	22 GA TINNED
JMP11	XJP220000-0001	22 GA TINNED
L1	SAN001600-1000	10 uH 10%
L2	SAN001600-1000	10 uH 10%
L3	SAN001600-1000	10 uH 10%
L100	SCN023500-2490	2.4 uH 5% SMD 0805
L101	SCN023500-2490	2.4 uH 5% SMD 0805
L102	SCN023500-2490	2.4 uH 5% SMD 0805
L103	SCN023500-2490	2.4 uH 5% SMD 0805
L400	SAN001600-1000	10 uH 10%
L401	SAN001600-1000	10 uH 10%
L500	SIN002002-3000	30uH 15% 1KHZ 0.25V 2A
L501	SIN002002-3000	30uH 15% 1KHZ 0.25V 2A
L502	SIN002002-3000	30uH 15% 1KHZ 0.25V 2A
L503	SIN002002-3000	30uH 15% 1KHZ 0.25V 2A
L504	SIL106002-2000	20 uH 2A
L507	SIL102001-2000	20uH D0.5mm 4PIN
L508	SIL102001-2000	20uH D0.5mm 4PIN
L509	SIL102001-2000	20uH D0.5mm 4PIN
L513	SAN001600-1510	150 uH 10%
L514	SAN001600-1510	150 uH 10%
L515	SIL102001-2000	20uH D0.5mm 4PIN
L2005	SCN023600-1000	10 uH 10% SMD 0805

L2008	XJP220000-0001	22 GA TINNED
L2009	SCB008050-1010	100 OHM AT 100MHZ
L2010	SCB008050-1010	100 OHM AT 100MHZ
L2032	SIL106002-2000	20 uH 2A
L2034	SIL106002-2000	20 uH 2A
L2036	SIL106002-2000	20 uH 2A
L2037	SIL106002-2000	20 uH 2A
L2038	SIL106002-2000	20 uH 2A
L2045	SIL102001-2000	20uH D0.5mm 4PIN
RB402	CCN250000-0103	B3B-XH-A 3 PIN
RB2001	CCN200000-0105	5 PIN PITCH=2.0mm
RB2002	CCN200000-0105	5 PIN PITCH=2.0mm
Rp100	QCP015081-3300	33 OHMx4 1/10W 5%
RP101	QCP015081-4700	47 OHMx4 1/10W 5%
RP102	QCP015081-4700	47 OHMx4 1/10W 5%
RP103	QCP015081-3300	33 OHMx4 1/10W 5%
RP104	QCP015081-3300	33 OHMx4 1/10W 5%
RP105	QCP015081-3300	33 OHMx4 1/10W 5%
RP106	QCP015081-3300	33 OHMx4 1/10W 5%
RP107	QCP015081-1000	10 OHMx4 1/10W 5%
RP108	QCP015081-3300	33 OHMx4 1/10W 5%
RP109	QCP015081-1000	10 OHMx4 1/10W 5%
RP110	QCP015081-1000	10 OHMx4 1/10W 5%
XL100	JQC023100-2760	27 MHZ HC-49US 30ppm
XL500	JQC013100-6151	6.144 MHZ HC-49/U

Capacitor

C1	PME039570-1000	10 uF 50V 20%
C2	PYL410370-1010	100 pF 50V 5%
C3	PYL410370-1010	100 pF 50V 5%
C4	PYL410370-1010	100 pF 50V 5%
C5	PYL410370-1010	100 pF 50V 5%
C6	PYL456370-1040	0.1 uF 50V 5%
C7	PYL456370-1040	0.1 uF 50V 5%
C8	PYL410370-1020	1000 pF 50V 5%
C9	PYL456370-1040	0.1 uF 50V 5%
C10	PYL456370-1040	0.1 uF 50V 5%
C11	PYL410370-1020	1000 pF 50V 5%
C12	PYL456370-1040	0.1 uF 50V 5%
C13	PYL410370-1020	1000 pF 50V 5%
C14	PYL456370-1040	0.1 uF 50V 5%
C15	PYL456370-1040	0.1 uF 50V 5%
C16	PYL410370-1010	100 pF 50V 5%
C17	PYL410370-1010	100 pF 50V 5%
C18	PYL410370-1010	100 pF 50V 5%
C19	PYL456370-1040	0.1 uF 50V 5%
C20	PYL456370-1040	0.1 uF 50V 5%
C21	PYL456370-1040	0.1 uF 50V 5%
C22	PYL456370-1040	0.1 uF 50V 5%
C38	PYL456370-1040	0.1 uF 50V 5%
C39	PYL410370-1010	100 pF 50V 5%
C41	PYL410370-1010	100 pF 50V 5%
C42	PYL410370-1010	100 pF 50V 5%
C43	PYL410370-1010	100 pF 50V 5%
C102	PYL456370-1040	0.1 uF 50V 5%
C103	PYL456370-1040	0.1 uF 50V 5%
C104	PME039550-4780	0.47 uF 25V 20%
C124	PYL410370-3300	33 pF 50V 5%
C127	PYL456370-1040	0.1 uF 50V 5%
C128	PYL410370-4710	470 pF 50V 5%
C129	PYL410370-4710	470 pF 50V 5%

C130	PYL410370-4710	470 pF 50V 5%
C131	PYL410370-4710	470 pF 50V 5%
C132	PYL410370-4710	470 pF 50V 5%
C133	PYL410370-4710	470 pF 50V 5%
C134	PYL410370-4710	470 pF 50V 5%
C135	PYL410370-4710	470 pF 50V 5%
C136	PYL410370-1010	100 pF 50V 5%
C137	PYL410370-1010	100 pF 50V 5%
C138	PYL456370-1040	0.1 uF 50V 5%
C141	PYL410370-2200	22 pF 50V 5%
C142	PYL410370-2200	22 pF 50V 5%
C143	PYL456370-1040	0.1 uF 50V 5%
C144	PYL410370-1020	1000 pF 50V 5%
C151	PYL410370-1500	15 pF 50V 5%
C296	PME039540-1010	100 uF 16V 20%
C400	PYL456370-1040	0.1 uF 50V 5%
C401	PME039550-1010	100 uF 25V 20%
C402	PYL410370-1010	100 pF 50V 5%
C403	PYL410370-1010	100 pF 50V 5%
C404	PYL439570-1030	0.01 uF 50V 20%
C405	PYL439570-4730	0.047 uF 50V 20%
C406	PYL439570-2230	0.022 uF 50V 20%
C407	XJP220000-0001	22 GA TINNED
C408	PME039570-4790	4.7 uF 50V 20%
C409	PME039570-4790	4.7 uF 50V 20%
C410	PME039570-1090	1 uF 50V 20%
C411	PYL410370-1010	100 pF 50V 5%
C412	PYL456370-1040	0.1 uF 50V 5%
C413	PYL456370-1040	0.1 uF 50V 5%
C414	PME039570-4790	4.7 uF 50V 20%
C415	PME039570-4790	4.7 uF 50V 20%
C416	PME039570-1000	10 uF 50V 20%
C417	PME039570-1000	10 uF 50V 20%
C418	PYL456370-1040	0.1 uF 50V 5%
C419	PYL439570-1030	0.01 uF 50V 20%
C420	PME039570-4790	4.7 uF 50V 20%
C421	PME039570-4790	4.7 uF 50V 20%
C422	PYL456370-1040	0.1 uF 50V 5%
C423	PME039540-4710	470 uF 16V 20%
C424	PYL410370-1020	1000 pF 50V 5%
C425	PYL456370-1040	0.1 uF 50V 5%
C426	PME039570-4790	4.7 uF 50V 20%
C427	PYL456370-1040	0.1 uF 50V 5%
C428	PYL410370-1020	1000 pF 50V 5%
C429	PME039540-1010	100 uF 16V 20%
C430	PYL456470-1020	0.001 uF 50V 10%
C432	PYL456370-1040	0.1 uF 50V 5%
C433	PME039570-4790	4.7 uF 50V 20%
C434	PYL410370-1010	100 pF 50V 5%
C435	PYL439570-1040	0.1 uF 50V 20%
C436	PYL410370-5600	56 pF 50V 5%
C437	PYL410370-5610	560 pF 50V 5%
C441	PYL410370-1010	100 pF 50V 5%
C442	PYL410370-1010	100 pF 50V 5%
C443	PYL410370-1010	100 pF 50V 5%
C444	PYL410370-1010	100 pF 50V 5%
C445	PYL410370-1010	100 pF 50V 5%
C446	PYL410370-1010	100 pF 50V 5%
C447	PYL410370-1010	100 pF 50V 5%
C447	PYL410370-1010	100 pF 50V 5%
C500	PYL410370-1010	100 pF 50V 5%

C501	PYL456370-1040	0.1 uF 50V 5%
C502	PYL456370-1040	0.1 uF 50V 5%
C504	PYL456370-1040	0.1 uF 50V 5%
C506	PYL456370-1040	0.1 uF 50V 5%
C510	PYL410370-1020	1000 pF 50V 5%
C511	PYL456450-1050	1uF 25V 10%
C512	PYL456370-1040	0.1 uF 50V 5%
C513	PYL456370-1040	0.1 uF 50V 5%
C514	PYL410370-1020	1000 pF 50V 5%
C515	PYL456370-1040	0.1 uF 50V 5%
C516	PYL456370-1040	0.1 uF 50V 5%
C517	PME039570-1000	10 uF 50V 20%
C518	PME039570-1000	10 uF 50V 20%
C519	PME039570-1000	10 uF 50V 20%
C520	PME039570-1000	10 uF 50V 20%
C523	PRM0373A0-1040	0.1 uF 100V 5%
C525	PYL456370-1040	0.1 uF 50V 5%
C526	PVE039570-1020	1000 uF 50V 20%
C527	PVE039570-1020	1000 uF 50V 20%
C528	PYL410370-1020	1000 pF 50V 5%
C529	PYL410370-3310	330 pF 50V 5%
C530	PYL410370-3310	330 pF 50V 5%
C531	PYL410370-3310	330 pF 50V 5%
C532	PRL048570-4740	0.47 uF 50V 20%
C533	PRL048570-4740	0.47 uF 50V 20%
C534	PRL048570-4740	0.47 uF 50V 20%
C535	PRL048570-4740	0.47 uF 50V 20%
C536	PRL048570-1050	1 uF 50V 20%
C537	PRL048570-1050	1 uF 50V 20%
C538	PRL048570-1050	1 uF 50V 20%
C539	PRL048570-1050	1 uF 50V 20%
C540	PRL048570-1050	1 uF 50V 20%
C541	PRL048570-1050	1 uF 50V 20%
C542	PRL048570-1050	1 uF 50V 20%
C543	PRL048570-1050	1 uF 50V 20%
C544	PRL048570-1050	1 uF 50V 20%
C545	PRL048570-4740	0.47 uF 50V 20%
C546	PRL048570-4740	0.47 uF 50V 20%
C547	PRL048570-4740	0.47 uF 50V 20%
C548	PRD235470-1040	0.1 uF 50V 10%
C549	PRD235470-1040	0.1 uF 50V 10%
C550	PRD235470-1040	0.1 uF 50V 10%
C554	PRD235470-1040	0.1 uF 50V 10%
C555	PRD235470-1040	0.1 uF 50V 10%
C556	PRD235470-1040	0.1 uF 50V 10%
C557	PYL410370-1010	100 pF 50V 5%
C558	PYL410370-1010	100 pF 50V 5%
C559	PYL456370-1040	0.1 uF 50V 5%
C561	PYL456370-1040	0.1 uF 50V 5%
C562	PYL456370-1040	0.1 uF 50V 5%
C563	PME039570-4790	4.7 uF 50V 20%
C566	PYL456450-1050	1uF 25V 10%
C567	PYL456450-1050	1uF 25V 10%
C568	PYL456370-1040	0.1 uF 50V 5%
C569	PYL410370-1020	1000 pF 50V 5%
C570	PYL456370-1040	0.1 uF 50V 5%
C571	PYL410370-1020	1000 pF 50V 5%
C572	PYL456370-1040	0.1 uF 50V 5%
C573	PYL456370-1040	0.1 uF 50V 5%
C574	PYL456370-1040	0.1 uF 50V 5%
C575	PYL456370-1040	0.1 uF 50V 5%

C576 PME039570-1000 10 uF 50V 20%
C577 PME039570-1000 10 uF 50V 20%
C579 PYL456370-1040 0.1 uF 50V 5%
C581 PYL456370-1040 0.1 uF 50V 5%
C582 PYL410370-1020 1000 pF 50V 5%
C583 PVE039570-1020 1000 uF 50V 20%
C584 PYL410370-1020 1000 pF 50V 5%
C585 PYL410370-3310 330 pF 50V 5%
C586 PYL410370-3310 330 pF 50V 5%
C587 PYL410370-1020 1000 pF 50V 5%
C588 PRL048570-1050 1 uF 50V 20%
C589 PRL048570-1050 1 uF 50V 20%
C590 PRL048570-1050 1 uF 50V 20%
C591 PRL048570-1050 1 uF 50V 20%
C592 PRL048570-1050 1 uF 50V 20%
C593 PRL048570-1050 1 uF 50V 20%
C594 PRL048570-1050 1 uF 50V 20%
C595 PRL048570-1050 1 uF 50V 20%
C596 PRL048570-1050 1 uF 50V 20%
C598 PRL048570-1050 1 uF 50V 20%
C599 PRL048570-4740 0.47 uF 50V 20%
C900 PME039540-2210 220 uF 16V 20%
C901 PYL456370-1040 0.1 uF 50V 5%
C902 PYL456370-1040 0.1 uF 50V 5%
C903 PME039540-2210 220 uF 16V 20%
C904 PYL456370-1040 0.1 uF 50V 5%
C905 PYL456370-1040 0.1 uF 50V 5%
C906 PME039540-2210 220 uF 16V 20%
C907 PME039540-4710 470 uF 16V 20%
C908 PYL410370-1020 1000 pF 50V 5%
C909 PME039540-4710 470 uF 16V 20%
C910 PME039540-2210 220 uF 16V 20%
C911 PME039540-2210 220 uF 16V 20%
C912 PYL410370-1020 1000 pF 50V 5%
C928 PYL456370-1040 0.1 uF 50V 5%
C929 PYL456370-1040 0.1 uF 50V 5%
C930 PYL456370-1040 0.1 uF 50V 5%
C931 PYL456370-1040 0.1 uF 50V 5%
C934 PYL439570-1040 0.1 uF 50V 20%
C935 PYL410370-2200 22 pF 50V 5%
C936 PYL439570-1040 0.1 uF 50V 20%
C937 PYL439570-1040 0.1 uF 50V 20%
C938 PVE039540-1020 1000 uF 16V 20% 85 C
C2015 PYL456370-1040 0.1 uF 50V 5%
C2016 PYL410370-1020 1000 pF 50V 5%
C2017 PYL456370-1040 0.1 uF 50V 5%
C2018 PYL410370-1020 1000 pF 50V 5%
C2019 PME039540-1010 100 uF 16V 20%
C2020 PYL410370-1020 1000 pF 50V 5%
C2021 PYL456370-1040 0.1 uF 50V 5%
C2022 PYL410370-1020 1000 pF 50V 5%
C2023 PYL410370-1020 1000 pF 50V 5%
C2024 PYL456370-1040 0.1 uF 50V 5%
C2025 PYL410370-1020 1000 pF 50V 5%
C2026 PYL410370-1020 1000 pF 50V 5%
C2027 PYL456370-1040 0.1 uF 50V 5%
C2028 PYL456370-1040 0.1 uF 50V 5%
C2029 PYL456370-1040 0.1 uF 50V 5%
C2030 PYL410370-1020 1000 pF 50V 5%
C2031 PYL456370-1040 0.1 uF 50V 5%
C2032 PYL456370-1040 0.1 uF 50V 5%

C2033 PYL410370-1020 1000 pF 50V 5%
C2036 PYL456370-1040 0.1 uF 50V 5%
C2052 PME039550-1010 100 uF 25V 20%
C2053 PYL456370-1040 0.1 uF 50V 5%
C2056 PYL410370-1020 1000 pF 50V 5%
C2062 PYL456370-1040 0.1 uF 50V 5%
C2063 PYL410370-1020 1000 pF 50V 5%
C2064 PYL456370-1040 0.1 uF 50V 5%
C2065 PYL410370-1020 1000 pF 50V 5%
C2066 PYL456370-1040 0.1 uF 50V 5%
C2073 PVE039570-4720 4700 uF 50V 20%
C2074 PRM0373A0-1040 0.1 uF 100V 5%
C2076 PYL456370-1040 0.1 uF 50V 5%
C2079 PME039550-1010 100 uF 25V 20%
C2092 PYL410370-3300 33 pF 50V 5%
C2094 PYL410370-3300 33 pF 50V 5%
C2095 PYL410370-1020 1000 pF 50V 5%
C2096 PYL456370-1040 0.1 uF 50V 5%
C2164 PYL410370-1020 1000 pF 50V 5%
C2165 PYL410370-1020 1000 pF 50V 5%
C2175 PYL456370-1040 0.1 uF 50V 5%
C2175 PYL456370-1040 0.1 uF 50V 5%
C2176 PYL410370-1020 1000 pF 50V 5%
C2204 PYL456370-1040 0.1 uF 50V 5%
C2208 PRL048570-1050 1 uF 50V 20%
C2216 PRD235470-1040 0.1 uF 50V 10%
C2247 PYL456370-1040 0.1 uF 50V 5%
C2248 PYL410370-1020 1000 pF 50V 5%
C2249 PYL410370-1020 1000 pF 50V 5%
C2250 PYL456370-1040 0.1 uF 50V 5%
C2252 PYL410370-1020 1000 pF 50V 5%
C2253 PYL456370-1040 0.1 uF 50V 5%
C2254 PYL410370-1020 1000 pF 50V 5%
C2255 PYL456370-1040 0.1 uF 50V 5%
C2256 PYL456370-1040 0.1 uF 50V 5%
C2257 PYL410370-1020 1000 pF 50V 5%
C2258 PYL456370-1040 0.1 uF 50V 5%
C2259 PYL410370-1020 1000 pF 50V 5%
C2260 PYL456370-1040 0.1 uF 50V 5%
C2261 PYL410370-1020 1000 pF 50V 5%
C2262 PYL410370-1020 1000 pF 50V 5%
C2263 PYL456370-1040 0.1 uF 50V 5%
C2264 PYL456370-1040 0.1 uF 50V 5%
C2265 PYL456370-1040 0.1 uF 50V 5%
C2268 PYL410370-1020 1000 pF 50V 5%
C2269 PYL410370-1020 1000 pF 50V 5%
C2270 PYL410370-1020 1000 pF 50V 5%
C2271 PYL456370-1040 0.1 uF 50V 5%
C2272 PYL410370-1020 1000 pF 50V 5%
C2273 PYL456370-1040 0.1 uF 50V 5%
C2274 PYL456370-1040 0.1 uF 50V 5%
C2275 PYL410370-1020 1000 pF 50V 5%
C2276 PYL456370-1040 0.1 uF 50V 5%
C2277 PYL456370-1040 0.1 uF 50V 5%
C2278 PYL410370-1020 1000 pF 50V 5%
C2279 PYL456370-1040 0.1 uF 50V 5%
C2280 PYL410370-1020 1000 pF 50V 5%
C2281 PYL456370-1040 0.1 uF 50V 5%
C2282 PYL456370-1040 0.1 uF 50V 5%
C2283 PYL456370-1040 0.1 uF 50V 5%
C2284 PYL456370-1040 0.1 uF 50V 5%

C2285 PYL410370-1020 1000 pF 50V 5%
C2286 PYL410370-1020 1000 pF 50V 5%
C2287 PYL410370-1020 1000 pF 50V 5%
C2288 PYL456370-1040 0.1 uF 50V 5%
C2289 PYL410370-1020 1000 pF 50V 5%
C2290 PYL456370-1040 0.1 uF 50V 5%
C2291 PYL410370-1020 1000 pF 50V 5%
C2292 PYL456370-1040 0.1 uF 50V 5%
C2293 PYL410370-1020 1000 pF 50V 5%
C2294 PYL456370-1040 0.1 uF 50V 5%
C2295 PYL456370-1040 0.1 uF 50V 5%
C2296 PYL410370-1020 1000 pF 50V 5%
C2297 PYL410370-1020 1000 pF 50V 5%
C2297 PYL456370-1040 0.1 uF 50V 5%
C2298 PYL456370-1040 0.1 uF 50V 5%
C2299 PYL456370-1040 0.1 uF 50V 5%
C2300 PYL456370-1040 0.1 uF 50V 5%
C2301 PYL410370-1020 1000 pF 50V 5%
C2302 PYL456370-1040 0.1 uF 50V 5%
C2303 PYL410370-1020 1000 pF 50V 5%
C2304 PYL410370-1020 1000 pF 50V 5%
C2305 PYL410370-1020 1000 pF 50V 5%
C2306 PYL456370-1040 0.1 uF 50V 5%
C2307 PYL410370-1020 1000 pF 50V 5%
C5011 PRL048570-4740 0.47 uF 50V 20%
C5012 PRL048570-4740 0.47 uF 50V 20%
C5015 PRD235470-1040 0.1 uF 50V 10%
C5016 PRD235470-1040 0.1 uF 50V 10%
C5019 PYL456450-1050 1uF 25V 10%
C5020 PYL456450-1050 1uF 25V 10%
C5021 PYL456450-1050 1uF 25V 10%
C5022 PYL456450-1050 1uF 25V 10%
C5023 PRD235470-1040 0.1 uF 50V 10%
C5024 PRD235470-1020 1000 pF 50V 10%
C5031 PZL456550-1050 1uF 25V 20% 1206
C5032 PZL456550-1050 1uF 25V 20% 1206
C5033 PZL456550-1050 1uF 25V 20% 1206
C5034 PZL456550-1050 1uF 25V 20% 1206
C5035 PZL456550-1050 1uF 25V 20% 1206
C5036 PZL456550-1050 1uF 25V 20% 1206
C5037 PZL456550-1050 1uF 25V 20% 1206
C5038 PZL456550-1050 1uF 25V 20% 1206
C5039 PZL456550-1050 1uF 25V 20% 1206
C5040 PZL456550-1050 1uF 25V 20% 1206
C5041 PZL456550-1050 1uF 25V 20% 1206
C5042 PZL456550-1050 1uF 25V 20% 1206

Diode

D1 RAZ005004-0020 3.8-4.0V 0.5W
D100 RAD114148-0010 DIODE SW
D101 RAZ005007-0010 6.4-6.7V 0.5W
D102 RAZ005007-0010 6.4-6.7V 0.5W
D103 RAZ005007-0010 6.4-6.7V 0.5W
D104 RAZ005007-0010 6.4-6.7V 0.5W
D105 RAZ005007-0010 6.4-6.7V 0.5W
D106 RAZ005007-0010 6.4-6.7V 0.5W
D107 RAZ005007-0010 6.4-6.7V 0.5W
D108 RAZ005007-0010 6.4-6.7V 0.5W
D400 RAD114148-0010 DIODE SW
D404 RAD114148-0010 DIODE SW
D405 RAD114148-0010 DIODE SW

D406 RAD114148-0010 DIODE SW
D407 RAD114148-0010 DIODE SW
D408 RAD114148-0010 DIODE SW
D409 RAD114148-0010 DIODE SW
D410 RAD114148-0010 DIODE SW
D411 RAD114001-0010 DIODE
D412 QAF025000-2790 2.7OHM 0.5W
D910 RAD115392-0010 1N5392 1.5A 100V
Z2001 RAZ005005-0030 5.0-5.2V 0.5W
ZD100 RAZ005005-0030 5.0-5.2V 0.5W
ZD401 RAZ005003-0020 2.9-3.1V 0.5W
ZD402 RAZ005024-0020 23.6-24.7V 0.5W

Intergranted Circuit

IC100 RCI290080-0001 IC 40 PIN AM29F080B-90CE
IC101 RCI740004-0001 IC 14 PIN TC74HC04AFN TOSHIBA
IC102 RCI740374-0002 IC20 PIN 74HC374
IC103 RCI006018-0001 IC 208 PINES6018
IC104 RCI740374-0002 IC 20 PIN 74HC374
IC105 RCI024002-0001 IC 8 PIN AT24C02
IC106 RCI400160-0001 IC 54 PIN 4MX16 Y3V TW StarRam
IC400 RHI004052-0001 IC 16 PIN TC4052BP
IC401 RCI004558-0001 IC 8 PIN JRC4558D JRC
IC402 RCI280320-0001 IC28 PIN TLV320A IC23PW
IC500 RCI740126-0002 IC 14 PIN 74LVT126 3.3V
IC501 RCI741250-0002 IC 14 PIN 74LVT125 3.3V
IC502 RCI000304-0001 IC 44 PIN STA304A
IC503 RCI000505-0001 IC 36 PIN STA505 50Wx2
IC504 RCI000505-0001 IC 36 PIN STA505 50Wx2
IC505 RCI000304-0001 IC 44 PIN STA304A
IC506 RCI000505-0001 IC 36 PIN STA505 50Wx2
IC900 RHI007805-0005 IC3 PIN BA05T ROHM
IC901 RHI007805-0005 IC 3 PIN BA05T ROHM
IC914 RHI000330-0001 IC 3 PIN BA033T 3.3V 1A ROHM

Transistor

Q101 RAN202001-0001 2SC2001L NEC
Q102 RAN200945-0001 2SC945P
Q400 RAN200945-0001 2SC945P
Q401 RAN202878-0001 2SC2878-A (TEI.M)
Q402 RAN202878-0001 2SC2878-A (TEI.M)
Q403 RAN202878-0001 2SC2878-A (TEI.M)
Q404 RAP200733-0001 2SA733Q,P NEC
Q900 RAN200945-0001 2SC945P
Q903 RAP200733-0001 2SA733Q,P NEC
Q904 RAN200945-0001 2SC945P
Q905 RAP200733-0001 2SA733Q,P NEC
Q906 RAN200945-0001 2SC945P
Q907 RHP200772-0001 2SB772P/Q NEC
Q908 RAN200945-0001 2SC945P
Q909 RHP200772-0001 2SB772P/Q NEC
Q2007 RAN200945-0001 2SC945P

Resistor

R1 QCF015020-4730 47K OHM 1/10W 5%
R2 QAF065000-2220 2.2K OHM 1/6W 5% CF
R3 QAF065000-2220 2.2K OHM 1/6W 5% CF
R41 QCF015020-1010 100 OHM 1/10W 5%
R42 QCF015020-1010 100 OHM 1/10W 5%
R103 QCF015020-1220 1.2K OHM 1/10W 5%

R105 QCF015020-0000 0 OHM JUMP WIRE
R107 QCF015020-0000 0 OHM JUMP WIRE
R108 QCF015020-3010 300 OHM 1/10W 5%
R109 QCF015020-4720 4.7K OHM 1/10W 5%
R111 QCF015020-3300 33 OHM 1/10W 5%
R112 QCF015020-3300 33 OHM 1/10W 5%
R113 QCF015020-3300 33 OHM 1/10W 5%
R114 QCF015020-4720 4.7K OHM 1/10W 5%
R116 QCF015020-4720 4.7K OHM 1/10W 5%
R118 QCF015020-4720 4.7K OHM 1/10W 5%
R120 QCF015020-4720 4.7K OHM 1/10W 5%
R121 QCF015020-1020 1K OHM 1/10W 5%
R122 QCF015020-3300 33 OHM 1/10W 5%
R123 QCF015020-3300 33 OHM 1/10W 5%
R124 QCF015020-3300 33 OHM 1/10W 5%
R125 QCF015020-3300 33 OHM 1/10W 5%
R126 QCF015020-3300 33 OHM 1/10W 5%
R129 QCF015020-2710 270 OHM 1/10W 5%
R130 QCF015020-1020 1K OHM 1/10W 5%
R131 QCF015020-7500 75 OHM 1/10W 5%
R132 QCF015020-7500 75 OHM 1/10W 5%
R133 QCF015020-7500 75 OHM 1/10W 5%
R134 QCF015020-7500 75 OHM 1/10W 5%
R135 QCF015020-0000 0 OHM JUMP WIRE
R137 QCF015020-3300 33 OHM 1/10W 5%
R139 QCF015020-3300 33 OHM 1/10W 5%
R143 QCF015020-0000 0 OHM JUMP WIRE
R144 QCF015020-4720 4.7K OHM 1/10W 5%
R145 QCF015020-4720 4.7K OHM 1/10W 5%
R146 QCF015020-0000 0 OHM JUMP WIRE
R147 QCF015020-3300 33 OHM 1/10W 5%
R148 QCF015020-3300 33 OHM 1/10W 5%
R149 QCF015020-3300 33 OHM 1/10W 5%
R150 QCF015020-3300 33 OHM 1/10W 5%
R151 QCF015020-3300 33 OHM 1/10W 5%
R152 QCF015020-3300 33 OHM 1/10W 5%
R154 QCF015020-3300 33 OHM 1/10W 5%
R155 QCF015020-3300 33 OHM 1/10W 5%
R156 QCF015020-3300 33 OHM 1/10W 5%
R157 QCF015020-3300 33 OHM 1/10W 5%
R158 QCF015020-3300 33 OHM 1/10W 5%
R159 QCF015020-3310 330 OHM 1/10W 5%
R160 QCF015020-3300 33 OHM 1/10W 5%
R161 QCF015020-3300 33 OHM 1/10W 5%
R162 QCF015020-3300 33 OHM 1/10W 5%
R163 QCF015020-4700 47 OHM 1/10W 5%
R164 QCF015020-3300 33 OHM 1/10W 5%
R171 QCF015020-2230 22K OHM 1/10W 5%
R172 QCF015020-4730 47K OHM 1/10W 5%
R177 QCF015020-1000 10 OHM 1/10W 5%
R178 QCF015020-3300 33 OHM 1/10W 5%
R179 QCF015020-3300 33 OHM 1/10W 5%
R180 QCF015020-1020 1K OHM 1/10W 5%
R181 QCF015020-3320 3.3K OHM 1/10W 5%
R182 QCF015020-1020 1K OHM 1/10W 5%
R183 QCF015020-4720 4.7K OHM 1/10W 5%
R184 QCF015020-4720 4.7K OHM 1/10W 5%
R185 QCF015020-4720 4.7K OHM 1/10W 5%
R186 QCF015020-4720 4.7K OHM 1/10W 5%
R187 QCF015020-1000 10 OHM 1/10W 5%
R189 QCF015020-3300 33 OHM 1/10W 5%

R191 QCF015020-0000 0 OHM JUMP WIRE
R193 QCF015020-0000 0 OHM JUMP WIRE
R248 QCF015020-2230 22K OHM 1/10W 5%
R400 QCF015020-2010 200 OHM 1/10W 5%
R401 QCF015020-1010 100 OHM 1/10W 5%
R402 QCF015020-4720 4.7K OHM 1/10W 5%
R403 QCF015020-1010 100 OHM 1/10W 5%
R404 QCF015020-1010 100 OHM 1/10W 5%
R405 QCF015020-1530 15K OHM 1/10W 5%
R406 QCF015020-1530 15K OHM 1/10W 5%
R407 QCF015020-1530 15K OHM 1/10W 5%
R408 QCF015020-1530 15K OHM 1/10W 5%
R409 QCF015020-1030 10K OHM 1/10W 5%
R410 QCF015020-1010 100 OHM 1/10W 5%
R411 QCF015020-1520 1.5K OHM 1/10W 5%
R412 QCF015020-1020 1K OHM 1/10W 5%
R413 QCF015020-1020 1K OHM 1/10W 5%
R414 QCF015020-1010 100 OHM 1/10W 5%
R415 QCF015020-1010 100 OHM 1/10W 5%
R417 QCF015020-1530 15K OHM 1/10W 5%
R418 QCF015020-1530 15K OHM 1/10W 5%
R419 QCF015020-1030 10K OHM 1/10W 5%
R420 QCF015020-4720 4.7K OHM 1/10W 5%
R421 QCF015020-1030 10K OHM 1/10W 5%
R424 QCF015020-0000 0 OHM JUMP WIRE
R425 QCF015020-5630 56K OHM 1/10W 5%
R427 QCF015020-1530 15K OHM 1/10W 5%
R428 QCF015020-1530 15K OHM 1/10W 5%
R429 QCF015020-1030 10K OHM 1/10W 5%
R430 QCF015020-4720 4.7K OHM 1/10W 5%
R431 QCF015020-1020 1K OHM 1/10W 5%
R432 QCF015020-4720 4.7K OHM 1/10W 5%
R433 QCF015020-4720 4.7K OHM 1/10W 5%
R434 QCF015020-4720 4.7K OHM 1/10W 5%
R435 QCF015020-4720 4.7K OHM 1/10W 5%
R436 QCF015020-1020 1K OHM 1/10W 5%
R439 QCF015020-4720 4.7K OHM 1/10W 5%
R440 QCF015020-4710 470 OHM 1/10W 5%
R441 QCF015020-4710 470 OHM 1/10W 5%
R442 QCF015020-4730 47K OHM 1/10W 5%
R443 QCF015020-4720 4.7K OHM 1/10W 5%
R444 QCF015020-1030 10K OHM 1/10W 5%
R446 QCF015020-4720 4.7K OHM 1/10W 5%
R448 QCF015020-4720 4.7K OHM 1/10W 5%
R449 QCF015020-4720 4.7K OHM 1/10W 5%
R500 QCF015020-4720 4.7K OHM 1/10W 5%
R501 QCF015020-1050 1M OHM 1/10W 5%
R502 QCF015020-1030 10K OHM 1/10W 5%
R503 QCF015020-1030 10K OHM 1/10W 5%
R504 QCF015020-1030 10K OHM 1/10W 5%
R505 QCF045010-2200 22 OHM 1/4W 5%
R506 QCF045010-2200 22 OHM 1/4W 5%
R507 QCF045010-2200 22 OHM 1/4W 5%
R508 QCF045010-6290 6.2 OHM 1/4W 5%
R509 QCF045010-6290 6.2 OHM 1/4W 5%
R510 QCF045010-6290 6.2 OHM 1/4W 5%
R511 QCF045010-6290 6.2 OHM 1/4W 5%
R512 QCF045010-6290 6.2 OHM 1/4W 5%
R513 QCF045010-6290 6.2 OHM 1/4W 5%
R514 QCF045010-6290 6.2 OHM 1/4W 5%
R515 QCF015020-4720 4.7K OHM 1/10W 5%

R516 QCF015020-4730 47K OHM 1/10W 5%
R517 QCF015020-4730 47K OHM 1/10W 5%
R518 QCF015020-1030 10K OHM 1/10W 5%
R519 QCF045010-2200 22 OHM 1/4W 5%
R520 QCF045010-2200 22 OHM 1/4W 5%
R521 QCF045010-2200 22 OHM 1/4W 5%
R522 QCF045010-6290 6.2 OHM 1/4W 5%
R524 QCF045010-6290 6.2 OHM 1/4W 5%
R525 QCF045010-6290 6.2 OHM 1/4W 5%
R526 QCF045010-6290 6.2 OHM 1/4W 5%
R527 QCF015020-1030 10K OHM 1/10W 5%
R528 QCF015020-1030 10K OHM 1/10W 5%
R529 QCF015020-2020 2K OHM 1/10W 5%
R530 QCF015020-2020 2K OHM 1/10W 5%
R531 QCF015020-1030 10K OHM 1/10W 5%
R532 QCF015020-1030 10K OHM 1/10W 5%
R533 QCF015020-1020 1K OHM 1/10W 5%
R534 QCF015020-1010 100 OHM 1/10W 5%
R900 QCF015020-1030 10K OHM 1/10W 5%
R901 QCF015020-1030 10K OHM 1/10W 5%
R902 QCF015020-2230 22K OHM 1/10W 5%
R903 QCF015020-1020 1K OHM 1/10W 5%
R905 QCF015020-1030 10K OHM 1/10W 5%
R906 QCF015020-1030 10K OHM 1/10W 5%
R907 QCF015020-2230 22K OHM 1/10W 5%
R908 QCF015020-1020 1K OHM 1/10W 5%
R919 QCF015020-1030 10K OHM 1/10W 5%
R920 QCF015020-1030 10K OHM 1/10W 5%
R921 QCF015020-2230 22K OHM 1/10W 5%
R922 QCF015020-5610 560 OHM 1/10W 5%
R924 QCF015020-1030 10K OHM 1/10W 5%
R925 QCF015020-2230 22K OHM 1/10W 5%
R926 QCF015020-1020 1K OHM 1/10W 5%
R996 QCF015020-1030 10K OHM 1/10W 5%
R2018 QCF015020-1030 10K OHM 1/10W 5%
R2061 QCF015020-1520 1.5K OHM 1/10W 5%
R2108 QCF015020-3300 33 OHM 1/10W 5%

3-2 SUBWOOFER SECTION

3-2-1 MECHANICAL PARTS LIST

MECHANISM SECTION

No	Part No	Description
01	IVE100221-0001	SPONGE
02	HSP140054-3080	SCREW
03	BPN10082-0001	LED LENS
04	BPH100069-0001	LENS COVER
06	APE100426-0001	LED PCB
07	BPN100060-0001	IEWFINDER
08	BPH100060-0001	LENS HOLDE
09	HSD143103-3250	SCREW
10	HNT140700-1300	NUT
11	HWT168540-1100	WASHER
12	GSE000110-0001	X`FORMER BRACKET
13	TTI123001-0110	PWR TRANS
14	ICH080007-0007	RUBBER
15	APE100199-0011	MAIN PCB ASS`Y
16	GSE100117-0001	PCB BRACKET
17	GSE000206-0001	IC BRACKET
18	HSP140054-3100	SCREW
19	DHU201001-0001	WASHER
20	HSP143084-3100	SCREW
21	HSP143084-3060	SCREW
22	GSE000093-0002	PCB BKT
23	BPC000021-0001	REAR COVER
24	IVE000096-0002	COVER SPONGE
25	IVE000095-0001	COVER SPONGE
26	APE100199-0021	JACK ASS`Y
27	IVE100172-0001	SPONGE
28	GAL100090-0001	REAR PLATE
29	IVE100173-0001	SPONGE
30	HST140071-3140	SCREW
31	HSP140054-3100	SCREW
32	HSP143053-3060	SCREW
33	DBU001002-3060	BUSHING
34	VPE003252-0010	LINE CORD
35	HWF118040-6100	WASHING FIB
36	HSP143083-3160	SCREW
37	GAL100113-0001	HEAT SINK
38	HIM000001-0007	MICA SHEET
39	VFL211214-5500	CON/WIRE
40	IVN00042-0001	CLOTH
41	BPG101031-0001	SPK GRILLE
42	HST140091-3200	SCREW
43	FSB02A080-31110	SPK DRIVER
44	IVE000037-0001	DRV SPONGE
45	APE100200-0003	POWER PCB
46	HST140051-3220	SCREW
47	DSS100004-0003	SPACER
48	BPE100014-0001	PLAS.FOOT
49	BRF100021-0001	RUBBER FOOT
50	EVM100054-0001	WOOD BOX
51	BPR100027-0001	PORT TUBE
52	DPP017065-1250	PAPER PORT
53	IVE10074-0001	SPONGE
54	BPF102007-0001	FRONT CAB

AMP & JACK SECTION

Misellaneous		
	LVM100199-0001	MAIN PCB
	LVM100199-0011	MAIN PCB
	LVM100199-0021	JACK PCB
	VWT130121-0420	2P 420mmRD/BK B:STP4ForCN501
	DHU201001-0001	OD6xID3xH2.5mm ForIC501
CN301	CCN200000-0104	4 PIN PITCH=2.0mm
CN401	CCN250000-0102	B2B-XH-A 2 PIN
CN402	CCN250000-0102	B2B-XH-A 2 PIN
CN905	VFL411245-2000	4P 200mm2468#26 BLK
F902	CFC011000-1001	DIA5xL20mm FUSE
F902	KSA020400-0030	4A 250V SLOW
F903	KSA020400-0030	4A 250V SLOW
F903	CFC011000-1001	DIA5xL20mm FUSE
RB301	VWA200036-0003	4P 110mm 2854#28&30 BRN
RB401	CCN200000-0502	2 PIN PITCH=2.0mm
RB402	CCN200000-0502	2 PIN PITCH=2.0 mm
RB904	CCN3960-0103	3 PIN PITCH=3.96mm
SW301	MSW004020-0010	2P2T K22F24

Capacitor

C301	PRD113370-1010	100 pF 50V 5%
C302	PME039570-1090	1uF 50V 20%
C303	PME039570-1090	1uF 50V 20%
C304	PME039570-1090	1uF 50V 20%
C305	PRM0373A0-2240	0.22 uF 100V 5%
C306	PRM0373A0-2240	0.22 uF 100V 5%
C351	PME039570-2240	2.2 uF 50V 20%
C352	PRD339670-1040	0.1uF 50V +80-20%
C353	PRD113370-4700	47 pF 50V 5%
C354	PME039570-4790	4.7 uF 50V 20%
C355	PRD113370-4700	47 pF 50V 5%
C356	PME039540-1010	100 uF16V 20%
C357	PME039540-2210	220 uF 16V 20%
C358	PME039560-2200	22 uF 35V 20%
C359	PRC339670-1040	0.1 uF 50V +80-20%
C360	PME039540-2210	220 uF 16V 20%
C361	PVE039550-1020	1000 uF 25V 20% 85`C
C362	PRD49670-2230	0.022 uF 50V +80-20%
C363	PME039570-4790	4.7 uF 50V 20%
C364	PRD339670-1040	0.1 uF 50V +80-20%
C365	PME039540-1010	100 uF 16V 20%
C401	PRD113370-1010	100 pF 50V 5%
C402	PRM0373A0-1230	0.012uF 100V 5%
C403	PRM0373A0-6830	0.068 uF 100V 5%
C404	PRM0373A0-6830	0.068 uF 100V 5%
C405	PRM0373A0-3330	0.033 uF 100V 5%
C406	PRM0373A0-6820	0.0068 uF 100V 5%
C407	PME039570-1090	1 uF 50V 20%
C410	PME039540-1010	100 uF 16V 20%
C411	PME039540-1010	100 uF 16V 20%
C412	PRD249670-2230	0.022 uF 50V +80-20%
C413	PRD249670-2230	0.022 uF 50V +80-20%
C414	PRD249670-2240	0.22uF 50V +80-20%

C415	PRD249670-2240	0.22 uF 50V +80-20%
C418	PRD235470-2010	200 pF 50V 10%
C419	PRD235470-2010	200 pF 50V 10%
C502	PME039570-2290	2.2 uF 50V 20%
C503	PME039570-2290	2.2 uF 50V 20%
C504	PME039570-1000	10 uF 50V 20%
C505	PME039570-1000	10 uF 50V 20%
C506	PRM0373A0-1040	0.1 uF 100V 5%
C507	PRM0373A0-1020	0.001 uF 100V 5%
C508	PRD113370-3000	30 pF 50V 5%
C509	PRD113370-1010	100 pF 50V 5%
C510	PRM0373A0-1040	0.1 uF 100V 5%
C511	PME039560-2200	22 uF 35V 20%
C512	PME039550-2200	22 uF 25V 20%
C513	PME039550-2200	22 uF 25V 20%
C514	PME039570-1000	10 uF 50V 20%
C515	PME039570-1000	10 uF 50V 20%
C517	PRM0373A0-2240	0.22 uF 100V 5%
C518	PME039550-2200	22 uF 25V 20%
C905	PVE039580-4720	4700 uF 63V 20%
C906	PVE039580-4720	4700 uF 63V 20%
C907	PRD339670-1040	0.1 uF 50V +80-20%
C908	PRD339670-1040	0.1 uF 50V +80-20%
C909	PRD339670-1040	0.1 uF 50V +80-20%
C910	PRD339670-1040	0.1 uF 50V +80-20%
C913	PRD2485M0-1030	0.01 uF 500V 20%
C914	PRD2485M0-1030	0.01 uF 500V 20%
C915	PRD339670-1040	0.1 uF 50V +80-20%
C917	PME039550-1010	100 uF 25V 20%
C919	PME039550-1010	100 uF 25V 20%

Diode

D301	RAD114148-0010	DIODE SW
D302	RAD114148-0010	DIODE SW
D303	RAD114148-0010	DIODE
D304	RAD114148-0010	DIODE
D305	RAD114148-0010	DIODE SW
D306	RAD114148-0010	DIODE SW
D501	RAD114148-0010	DIODE SW
DB901	RHD204010-0011	4A 100V UL
ZD301	RAZ005009-0020	9.1-9.5V 0.5W
ZD901	RAZ005015-0020	14.5-15.1V 0.5W
ZD902	RAZ005015-0020	14.5-15.1V 0.5W

Integrated circuits

IC301	RHI004558-0001	JRC4558D JRC
IC401	RH1003240-0001	LM324N
IC501	RHI007293-0001	TDA7293
IC502	RHI004558-0001	JRC4558D JRC

Jumper

JK301	CJR001101-0010	1P BLACK
JW101	XJP220000-0001	22 GA TINNED
JW102	XJP220000-0001	22 GA TINNED
JW103	XJP220000-0001	22 GA TINNED
JW104	XJP220000-0001	22 GA TINNED

JW105	XJP220000-0001	22 GA TINNED
JW106	XJP220000-0001	22 GA TINNED
JW107	XJP220000-0001	22 GA TINNED
JW109	XJP220000-0001	22 GA TINNED
JW110	XJP220000-0001	22 GA TINNED
JW111	XJP220000-0001	22 GA TINNED
JW112	QAF065000-7520	7.5K OHM 1/6W 5% CF
JW113	XJP220000-0001	22 GA TINNED

Transistor

Q301	RAN200945-0001	2SC945P
Q302	RAN200945-0001	2SC945P
Q303	RAN200945-0001	2SC945P
Q304	RAN200945-0001	2SC945P
Q305	RAN200945-0001	2SC945P
Q306	RAN200945-0001	2SC945P
Q501	RAN200945-0001	2SC945P
Q502	RAN200945-0001	2SC945P

Resistor

R301	QAF065000-1230	12K OHM 1/6W 5% CF
R302	QAF065000-6820	6.8K OHM 1/6W 5% CF
R303	QAF065000-1030	10K OHM 1/6W 5% CF
R304	QAF065000-6820	6.8K OHM 1/6W 5% CF
R305	QAF065000-4730	47K OHM 1/6W 5% CF
R351	QAF065000-1040	100K OHM 1/6W 5% CF
R352	QAF065000-1040	100K OHM 1/6W 5% CF
R353	QAF065000-4720	4.7K OHM 1/6W 5% CF
R354	QAF065000-2020	2K OHM 1/6W 5% CF
R355	QAF065000-2250	2.2K OHM 1/6W 5% CF
R356	QAF065000-1030	10K OHM 1/6W 5% CF
R357	QAF065000-5600	56 OHM 1/6W 5% CF
R358	QAF065000-2740	270K OHM 1/6W 5% CF
R359	QAF065000-2740	270K OHM 1/6W 5% CF
R360	QAF065000-1030	10K OHM 1/6W 5% CF
R361	QAF065000-1030	10K OHM 1/6W 5% CF
R362	QAF065000-1020	1K OHM 1/6W 5% CF
R363	QAF065000-5640	560K OHM 1/6W 5% CF
R364	QAF065000-2240	220K OHM 1/6W 5% CF
R365	QAF065000-1050	1.0M OHM 1/6W 5% C F
R366	QAF065000-6840	680K OHM 1/6W 5% CF
R367	QAF065000-8230	82K OHM 1/6W 5% CF
R368	QAF065000-6840	680K OHM 1/6W 5% CF
R369	QAF065000-1030	10K OHM 1/6W 5% CF
R370	QAF065000-7520	7.5K OHM 1/6W 5% CF
R371	QAF065000-1030	10K OHM 1/6W 5% CF
R372	QAF065000-1010	100 OHM 1/6W 5% CF
R373	QAF065000-1030	10K OHM 1/6W 5% CF
R374	QAF065000-1020	1K OHM 1/6W 5% CF
R376	QAF065000-1030	10K OHM 1/6W 5% CF
R377	QAF065000-5130	51K OHM 1/6W 5% CF
R378	QAF065000-3330	33K OHM 1/6W 5% CF
R379	QAF045000-1010	100 OHM 1/4W 5% CF
R380	QAF065000-1030	10K OHM 1/6W 5% CF
R381	QAF065000-8230	82K OHM 1/6W 5% CF
R382	QAF065000-4720	4.7K OHM 1/6W 5% CF

R383	QAF065000-1010	100 OHM 1/6W 5% CF
R384	QAF065000-1020	1K OHM 1/6W 5% CF
R401	QAF065000-1540	150K OHM 1/6W 5% CF
R401	QAF065000-1050	1.0M OHM 1/6W 5% CF
R402	QAF065000-1030	10K OHM 1/6W 5% CF
R403	QAF065000-1830	18K OHM 1/6W 5% CF
R404	QAF065000-1050	1.0M OHM 1/6W 5% CF
R404	QAF065000-1540	150K OHM 1/6W 5% CF
R405	QAF065000-3820	3.8K OHM 1/6W 5% CF
R406	QAF065000-1830	18K OHM 1/6W 5% CF
R407	QAF065000-1830	18K OHM1/6W 5% CF
R410	QAF065000-1010	100 OHM 1/6W 5% CF
R411	QAF065000-1010	100 OHM 1/6W 5% CF
R502	QAF065000-1020	1K OHM 1/6W 5% CF
R505	QAF065000-4720	4.7K OHM 1/6W 5% CF
R506	QAF065000-3930	39K OHM 1/6W 5% CF
R507	QAF065000-2040	200K OHM 1/6W 5% CF
R508	QAF065000-1050	1.0M OHM 1/6W 5% CF
R509	QAF065000-1030	10K OHM 1/6W 5% CF
R510	QAF065000-4730	47K OHM 1/6W 5% CF
R511	QAF065000-1050	1.0M OHM 1/6W 5% CF
R512	QAF065000-1830	18K OHM 1/6W 5% CF
R513	QAF065000-1020	1K OHM 1/6W 5% CF
R514	QAF065000-1240	120K OHM 1/6W 5% CF
R515	QAF065000-1030	10K OHM 1/6W 5% CF
R516	QAF065000-1030	10K OHM 1/6W 5% CF
R517	QAF065000-2230	22K 1/6W 5% CF
R518	QAF065000-7510	750K OHM 1/6W 5% CF
R519	QAF065000-1030	10K OHM 1/6W 5% CF
R520	QAF065000-4730	47K OHM 1/6W 5% CF
R521	QAF065000-2230	22K 1/6W 5% CF
R522	QAF065000-3330	33K OHM 1/6W 5% CF
R523	QAF065000-1030	10K OHM 1/6W 5% CF
R524	QAF065000-4790	4.7K OHM 1/6W 5% CF
R525	QAF065000-2230	22K 1/6W 5% CF
R526	QAF065000-1030	10K OHM 1/6W 5% CF
R902	QDO305000-1020	1K OHM 3W 5% MO MIN
R903	QDO305000-6210	620 OHM 3W 5% MO MIN
R904	QAF065000-4720	4.7K OHM 1/6W 5% CF
R905	QAF065000-4720	4.7K OHM 1/6W 5% CF

POWER SECTION

Misellaneous		
	LVP100200-0001	POWER PCB
	VFL201314-5500	CON/WIRE For Cn401
	DCR030001-0001	ID19.6xW11xH5.5mmUL For F901
CN901	CCN396021-0104	4 PIN P=3.69mm
F901	KSA020200-0110	2A 250V SLOW
RB902	CCN396021-0104	4 PIN P=3.69mm
RB905	CCN200000-0104	4 PIN PITCH=2.0mm
RL901	MRL012004-0011	GJ-SH-112DM
T902	TTA123011-0010	230V 50Hz EI28 AXIAL

Capacitor

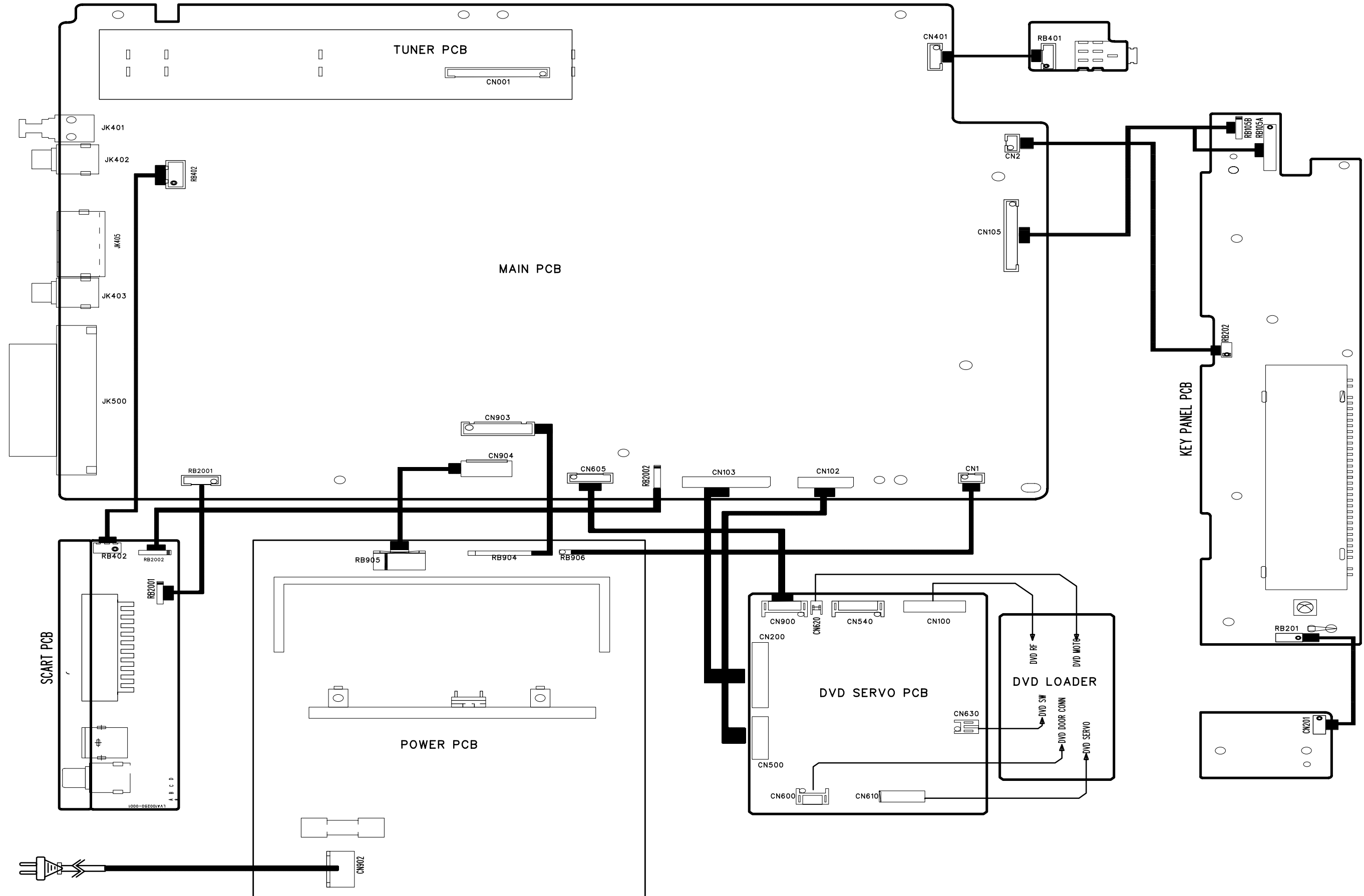
C901	PVY2705F0-1031	0.01uF 250V 20%
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Diode

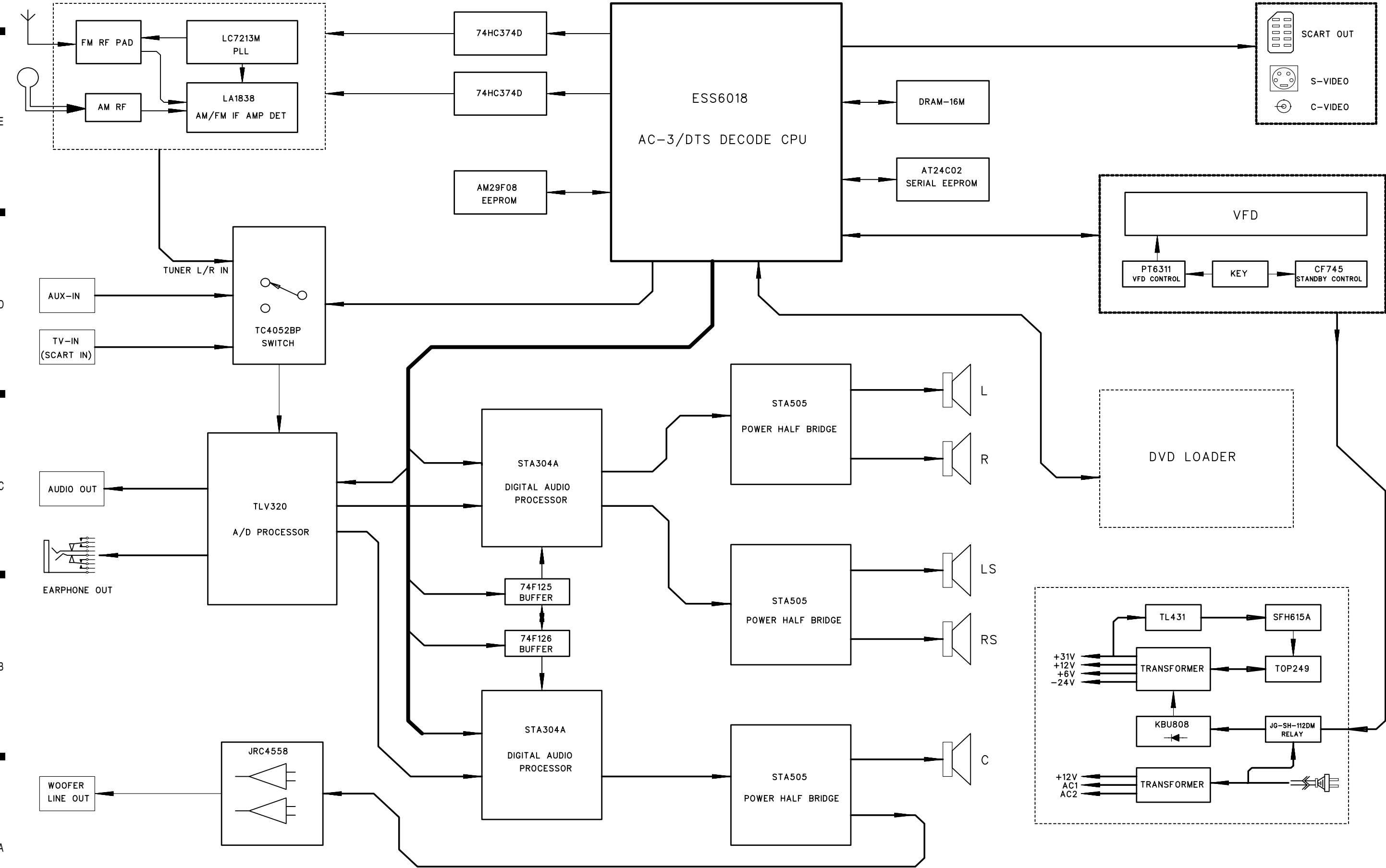
D901	RAD114001-0010	DIODE
D902	RAD114001-0010	DIODE
D903	RAD114001-0010	DIODE

SCHEMATIC, CIRCUIT BOARD AND BLOCK DIAGRAMS

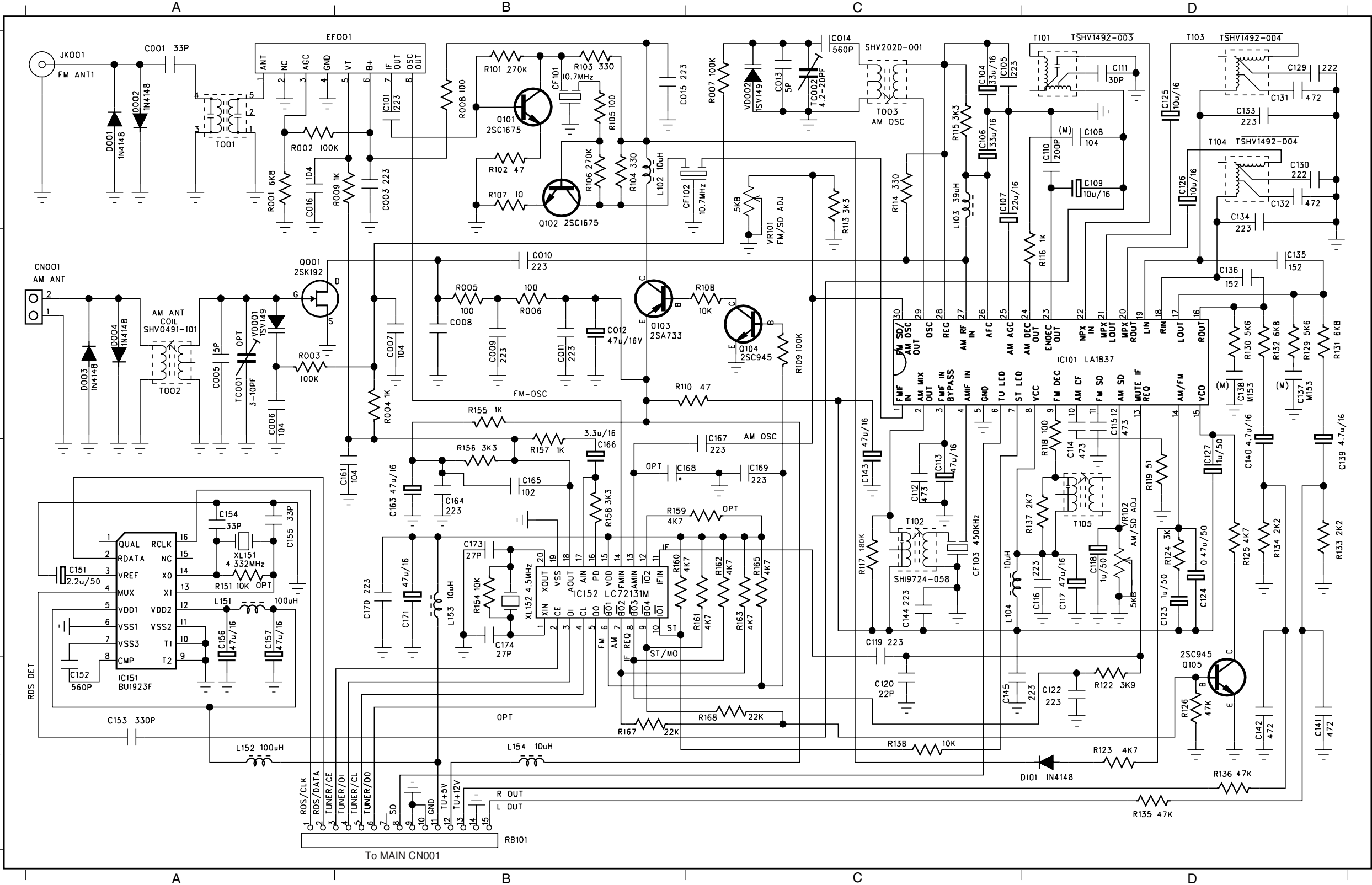
1 MAIN UNIT SECTION 1-1 WIRING DIAGRAM



1-2 BLOCK DIAGRAM



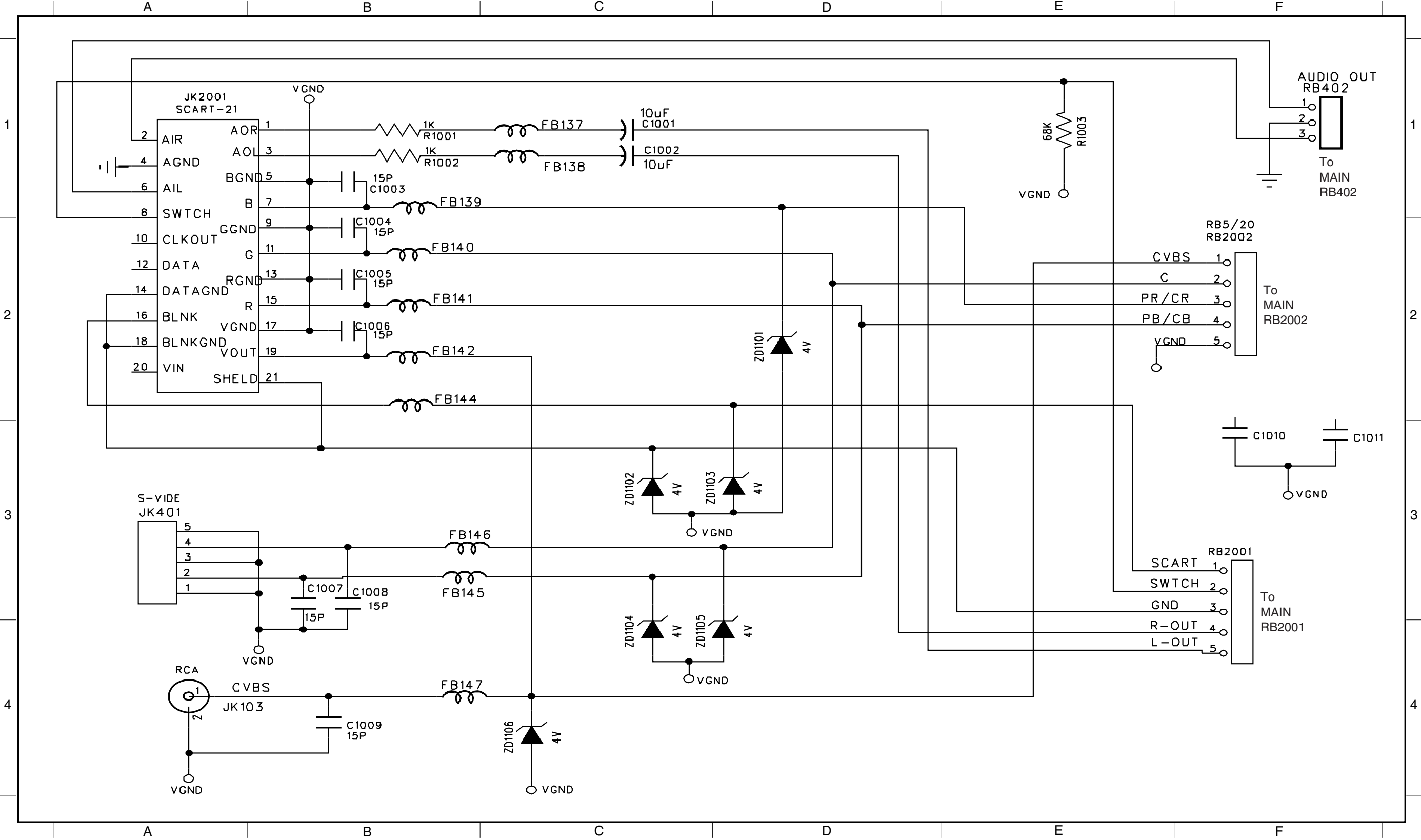
1-3 SCHEMATIC DIAGRAMS
TUNER SCHEMATIC DIAGRAM



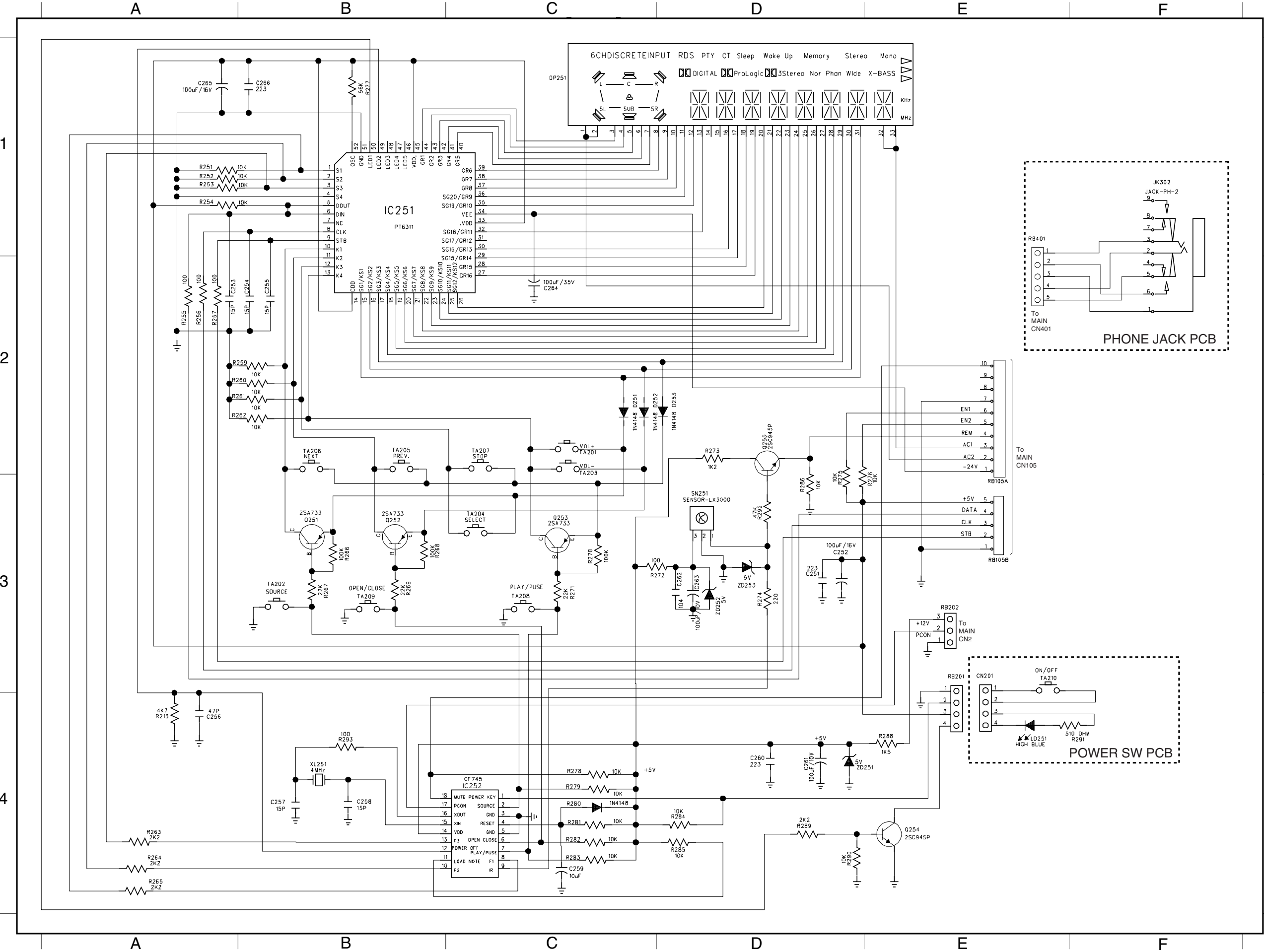
C001	A1	C161	B3	R122	D4
C003	B1	C163	B3	R123	D4
C005	A2	C164	B3	R124	D3
C006	A2	C165	B3	R125	D3
C007	B2	C166	B3	R126	D4
C008	B2	C167	C3	R129	D2
C009	B2	C169	C3	R130	D2
C010	B2	C170	B3	R131	D2
C011	B2	C171	B3	R133	D3
C012	B2	C173	B3	R134	D3
C013	C1	C174	B3	R135	D4
C014	C1	CF101	B1	R136	D4
C015	B1	CF102	C1	R137	D3
C016	A1	CF103	B3	R138	C4
C101	B1	CN001	A2	R151	A3
C104	C1	D101	D4	R154	B3
C105	C1	D001	A1	R155	B2
C106	C1	D002	A1	R156	B3
C107	C1	D003	A2	R157	B3
C108	D1	D004	A2	R158	B3
C109	D1	EF001	B1	R159	B3
C110	D1	IC101	D2	R160	B3
C111	D1	IC151	A4	R161	C3
C112	C3	IC152	B3	R162	C3
C113	C3	JK001	A1	R163	C3
C114	D3	L102	B1	R165	C3
C115	D2	L103	C1	R167	B4
C116	D3	L104	C3	R168	C4
C117	D3	L151	A3	RB101	B4
C118	D3	L152	A4	T101	D1
C119	C3	L153	B3	T102	C3
C120	C4	L154	B4	T103	D1
C122	D4	Q101	B1	T104	D1
C123	D3	Q102	B1	T105	D3
C124	D3	Q103	B2	TC001	A2
C125	D1	Q104	C2	TC002	C1
C126	D1	Q105	D4	T001	A1
C127	D3	Q001	A2	T002	A2
C129	D1	R001	A1	T003	C1
C130	D1	R002	A1	VD002	A5
C131	D1	R003	A2	XL151	A3
C132	D1	R004	B2	XL152	B3
C133	D1	R005	B2		
C134	D1	R006	B2		
C135	D2	R007	C1		
C136	D2	R101	B1		
C137	D2	R102	B1		
C138	D2	R103	B1		
C139	D3	R104	B1		
C140	D3	R105	B1		
C141	D4	R106	B1		
C142	D4	R107	B1		
C143	C3	R108	C2		
C144	C3	R109	C2		
C145	C4	R110	C2		
C151	A3	R111	C1		
C152	A4	R112	D2		
C153	A4	R113	C3		
C154	A3	R114	C1		
C155	A3	R115	C1		
C156	A3	R116	D2		
C157	A3	R117	C3		
		R118	D3		
		R119	D3		

SCART SCHEMATIC DIAGRAM

C1001	C1	C1006	B2	C1011	F3	FB141	B2	FB147	B4	R1003	E1	ZD1102	C3
C1002	C1	C1007	B3	FB137	C1	FB142	B2	JK103	A4	RB402	F1	ZD1103	D3
C1003	B1	C1008	B3	FB138	C1	FB144	B2	JK401	A3	RB2001	F3	ZD1104	C4
C1004	B2	C1009	B4	FB139	B1	FB145	B2	R1001	B1	RB2002	F2	ZD1105	C4
C1005	B2	C1010	F3	FB140	B2	FB146	B3	R1002	B1	ZD1101	D2	ZD1106	C4

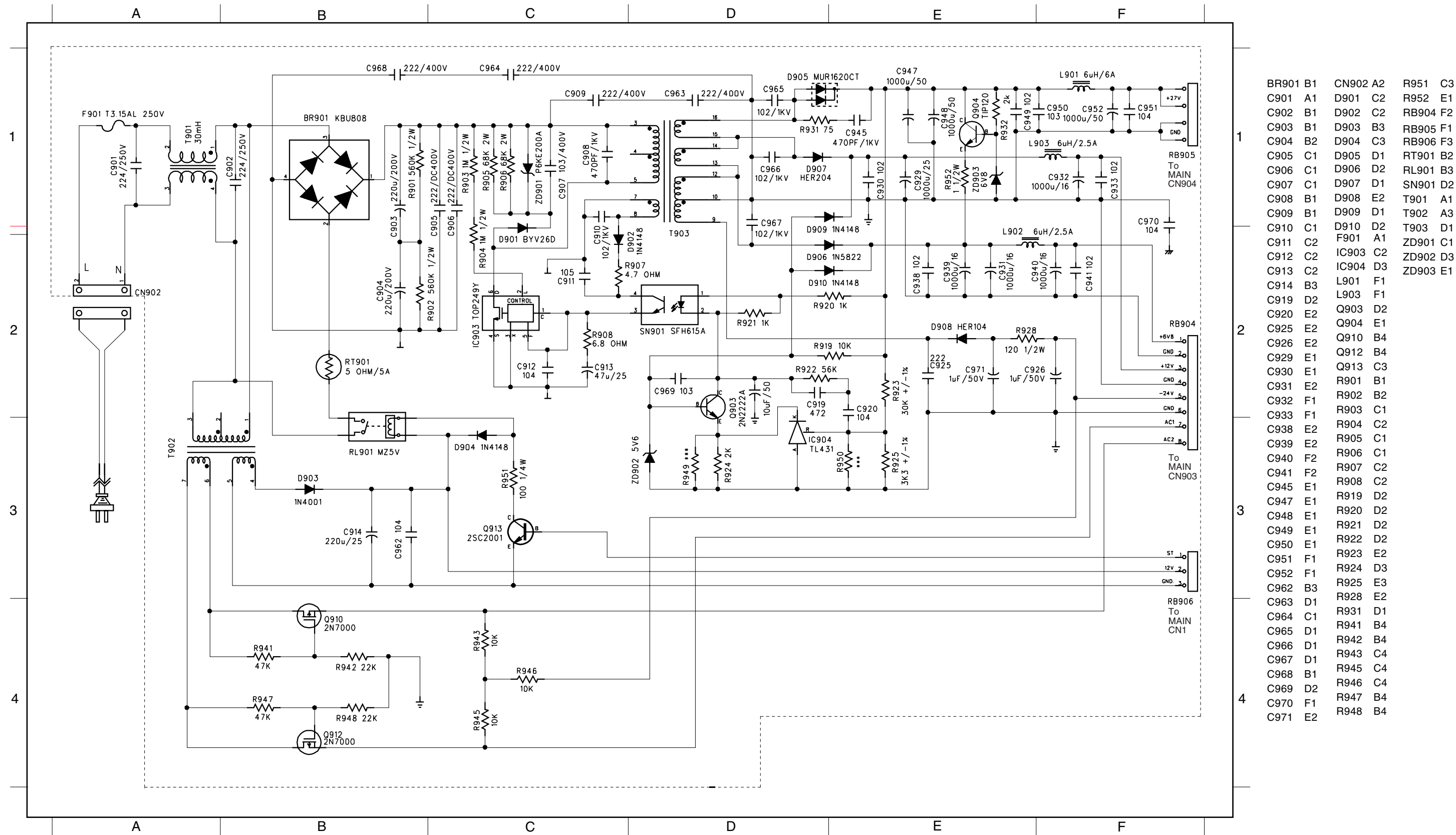


KEY PANEL SCHEMATIC DIAGRAM

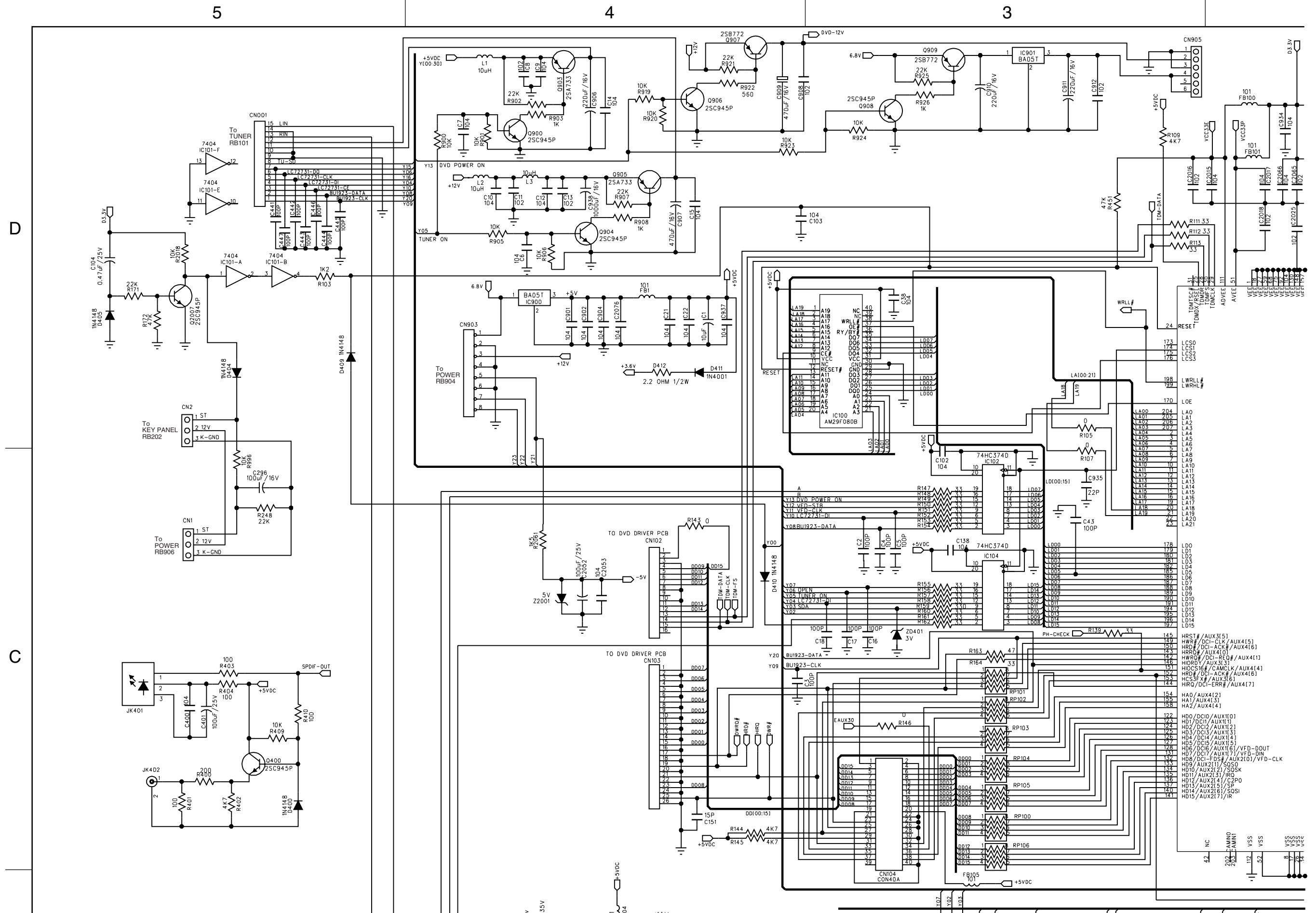


C251	D3	R286	D3
C252	D3	R288	E4
C253	A2	R289	D4
C254	B2	R290	D4
C255	B2	R291	f4
C256	A4	R292	D3
C257	B4	R293	B4
C258	B4	RB105A	E2
C259	C4	RB105B	E3
C260	D4	RB201	E4
C261	D4	RB202	E3
C262	D3	RB401	E1
C263	D3	D251	C2
C264	C2	D252	C2
C265	A1	D253	D2
C266	B1	CN201	E4
R213	A4	DP251	C1
R251	A1	IC251	B1
R252	A1	IC252	C4
R253	A1	JK302	F1
R254	A1	LD251	E4
R255	A2	Q251	B3
R256	A2	Q252	B3
R257	A2	Q253	C3
R259	B2	Q254	E4
R260	B2	Q255	D2
R261	B2	TA201	C2
R262	B2	TA202	B3
R263	A4	TA203	C2
R264	A4	TA204	C3
R265	A4	TA205	B2
R266	B3	TA206	B2
R267	B3	TA207	C2
R268	B3	TA208	C3
R269	B3	TA209	B3
R270	C3	TA210	E3
R271	C3	SN251	D3
R272	C3	XL251	B4
R273	D2	ZD251	D4
R274	D3	ZD252	D3
R275	D3	ZD253	D3
R276	E3		
R277	B1		
R278	C4		
R279	C4		
R281	C4		
R282	C4		
R283	C4		
R284	D4		
R285	D4		

POWER SCHEMATIC DIAGRAM



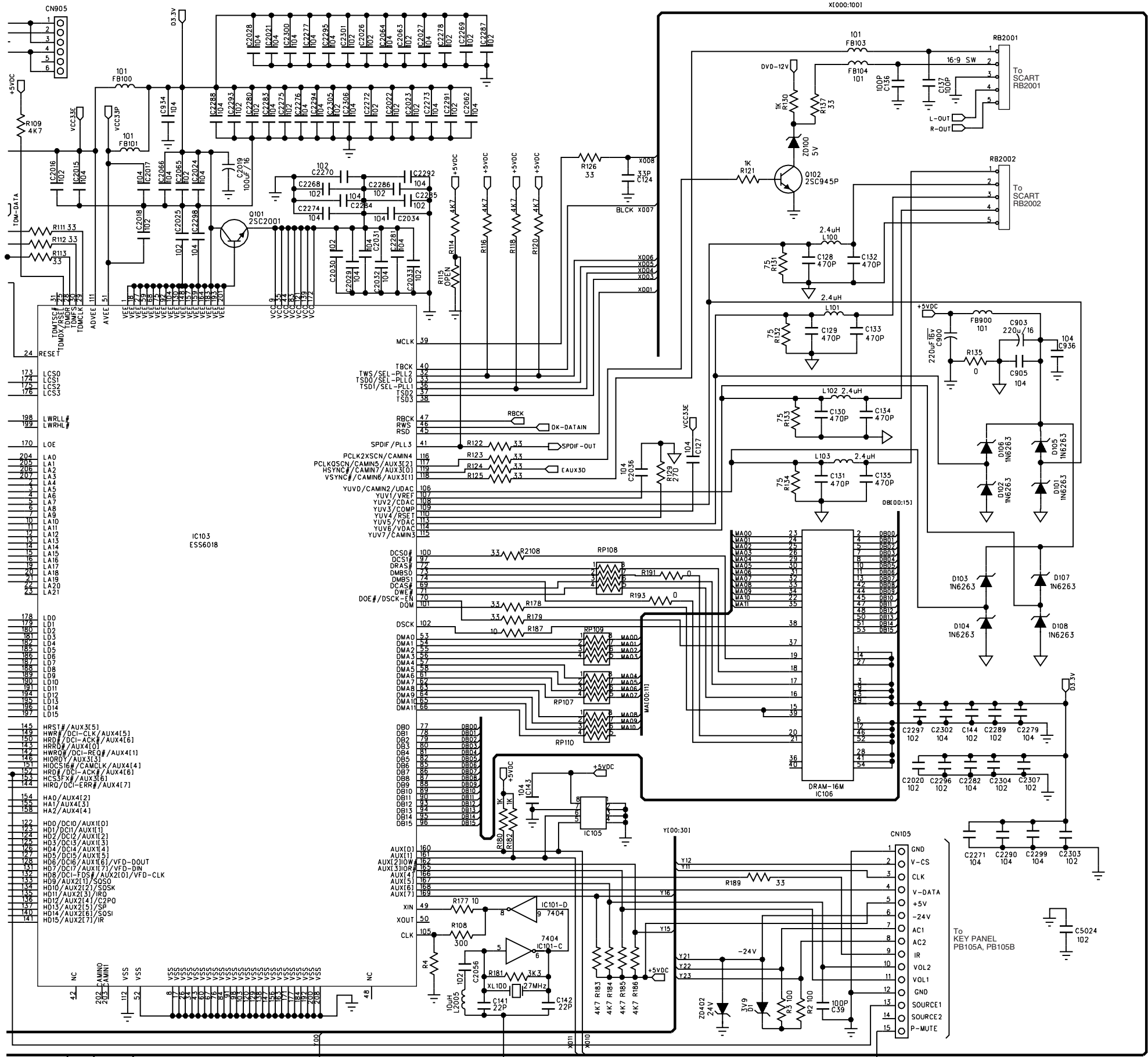
MAIN SCHEMATIC DIAGRAM (TOP LEFT VIEW)



MAIN SCHEMATIC DIAGRAM (TOP RIGHT VIEW)

2

1



D

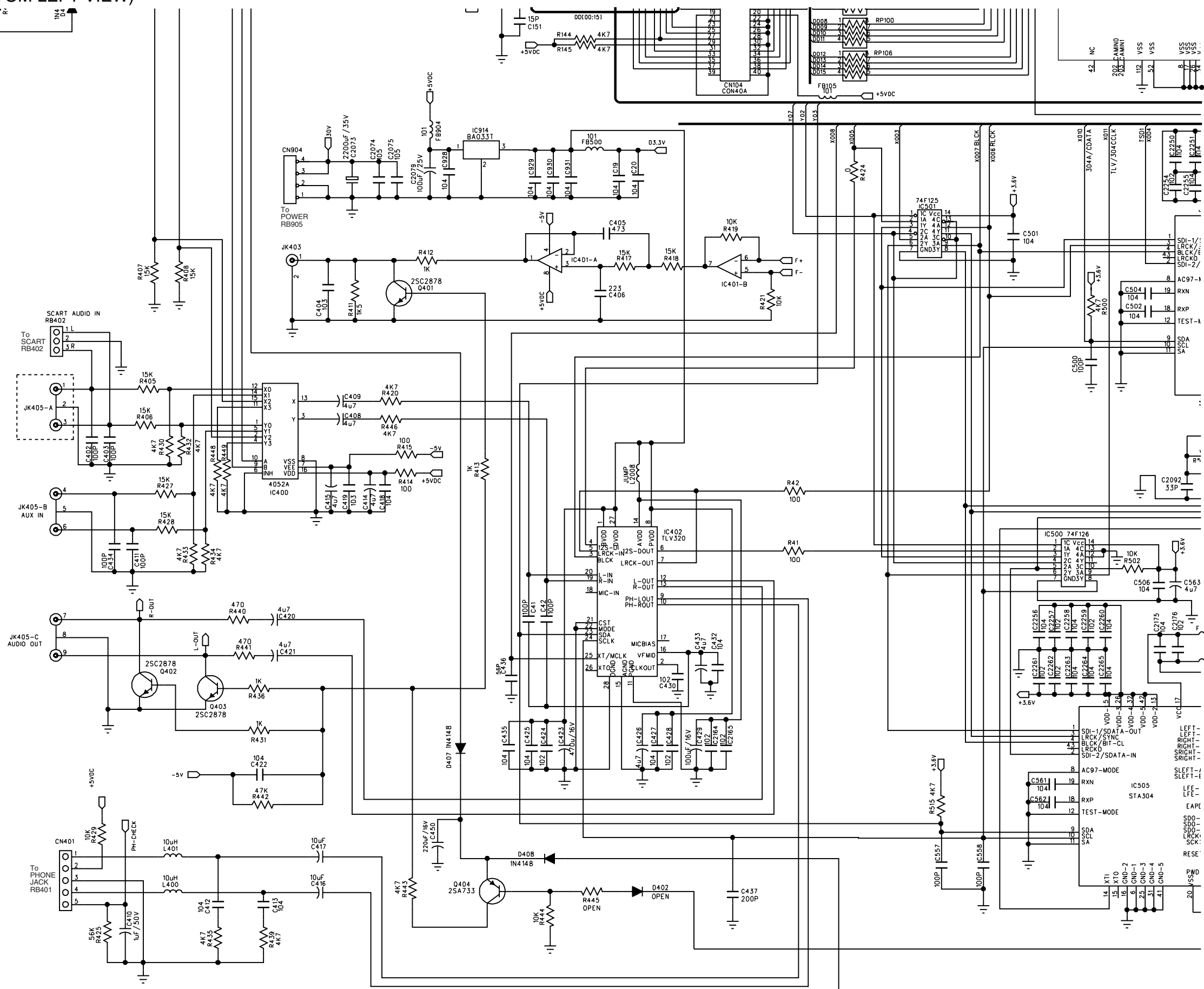
C

CN1	C5	L507	A1	R160	C3	R518	A2
CN2	D5	L508	B1	R161	C3	R519	A1
CN102	C4	L509	B1	R162	C3	R520	B1
CN103	C4	L513	A1	R163	C3	R521	A1
CN105	C1	L514	A1	R164	C3	R522	A1
CN401	A5	L515	B1	R171	D5	R523	A1
CN903	D4	L2005	C2	R172	D5	R524	A1
CN904	B4	L2008	B4	R177	C2	R525	A1
CN905	D3	L2009	B2	R178	C2	R526	A1
D1	C1	L2010	B2	R179	C2	R527	A1
D101	D1	L2032	B1	R180	C2	R528	A1
D102	D1	L2034	A1	R181	C2	R529	A1
D103	C1	L2036	B1	R182	C2	R530	A1
D104	C1	L2037	B1	R183	C1	R531	A1
D105	D1	L2038	A1	R184	C1	R532	A1
D106	D1	L2045	A1	R185	C1	R533	B2
D107	C1	Q101	D2	R186	C1	R534	B2
D108	C1	Q102	D1	R187	C2	R900	D4
D400	C5	Q400	C5	R189	C1	R901	D4
D402	A3	Q401	B4	R191	C1	R902	D4
D404	D5	Q402	A5	R193	C1	R903	D4
D405	D5	Q403	A4	R248	C5	R906	D4
D407	A4	Q404	A4	R400	C5	R907	D4
D408	A4	Q900	D4	R401	C5	R908	D4
D409	D5	Q903	D4	R402	C5	R919	D4
D410	C4	Q904	D4	R403	C5	R920	D4
D411	D4	Q905	D4	R404	C5	R921	D4
D412	D4	Q906	D4	R405	B5	R922	D4
FB1	D4	Q907	D4	R406	B5	R924	D3
FB100	D2	Q908	D3	R407	B5	R925	D3
FB101	D2	Q909	D3	R408	B3	R926	D3
FB103	D1	Q2007	D5	R409	C5	R996	C5
FB104	D1	R1	B2	R410	C5	R2018	D5
FB500	B4	R2	C1	R411	B4	R2061	C4
FB502	A2	R3	C1	R412	B4	R2108	C2
FB503	A2	R4	C2	R413	B4	RB2001D1	
FB900	D1	R41	B3	R414	B4	RB402	B5
IC100	D3	R42	B3	R415	B4	RB2002D1	
IC101-A	D5	R103	D5	R417	B4	RP100	C3
IC101-B	D5	R105	D3	R418	B3	RP101	C3
IC101-C	C2	R107	D3	R419	B3	RP102	C3
IC101-D	C2	R108	C2	R420	B4	RP103	C3
IC101-E	D5	R109	D3	R421	B3	RP104	C3
IC101-F	D5	R111	D3	R424	B3	RP105	C3
IC102	C3	R112	D3	R425	A5	RP106	C3
IC103	C2	R113	D3	R427	B5	RP107	C2
IC104	C3	R114	D2	R428	B5	RP108	C1
IC105	C1	R115	D2	R429	A5	RP109	C1
IC106	C1	R116	D2	R430	B5	RP110	C2
IC400	B4	R118	D2	R431	A4	XL100	C2
IC401-A	B4	R120	D2	R432	B5	XL500	B2
IC401-B	B3	R121	D1	R433	A5	Z2001	C4
IC402	B3	R122	D2	R434	A4	ZD100	D1
IC500	B3	R123	D2	R435	A4	ZD401	C3
IC501	B3	R124	D2	R436	A4	ZD402	C1
IC502	B2	R125	D2	R439	A4		
IC503	A1	R126	D2	R440	A4		
IC504	A1	R129	D1	R441	A4		
IC505	A2	R130	D1	R442	A4		
IC506	B1	R131	D1	R443	A4		
IC900	D4	R132	D1	R444	A4		
IC901	D3	R133	D1	R446	B4		
IC914	B4	R134	D1	R448	B4		
JK401	C5	R135	D1	R449	B4		
JK402	C5	R137	D1	R451	D3		
JK403	B4	R139	C3	R500	B2		
JK405-A	B5	R143	C4	R501	B2		
JK405-B	B5	R144	C4	R502	A2		
JK500	B1	R145	C4	R503	B2		
L1	D4	R146	C3	R504	A2		
L2	D4	R147	C3	R505	B1		
L3	D4	R148	C3	R506	B1		
L100	D1	R149	C3	R507	A1		
L101	D1	R150	C3	R508	B1		
L102	D1	R151	C3	R509	A1		
L103	D1	R152	C3	R510	B1		
L400	A5	R153	C3	R511	B1		
L401	A5	R154	C3	R512	B1		
L500	B1	R155	C3	R513	B1		
L501	B1	R156	C3	R514	B1		
L502	B1	R157	C3	R515	A3		
L503	B1	R158	C3	R516	A2		
L504	A1	R159	C3	R517	A2		

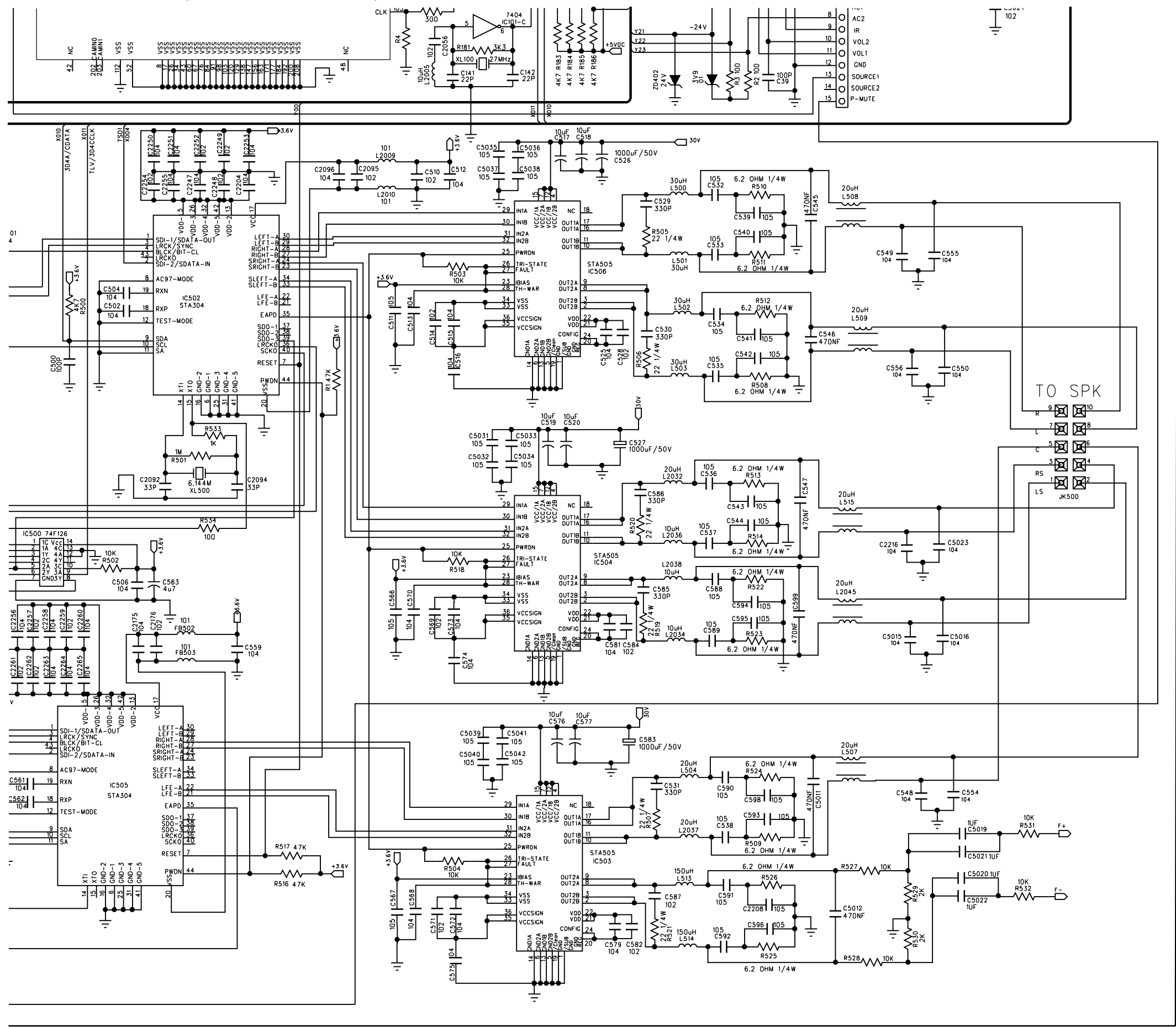
MAIN SCHEMATIC DIAGRAM (BOTTOM LEFT VIEW)

B

A

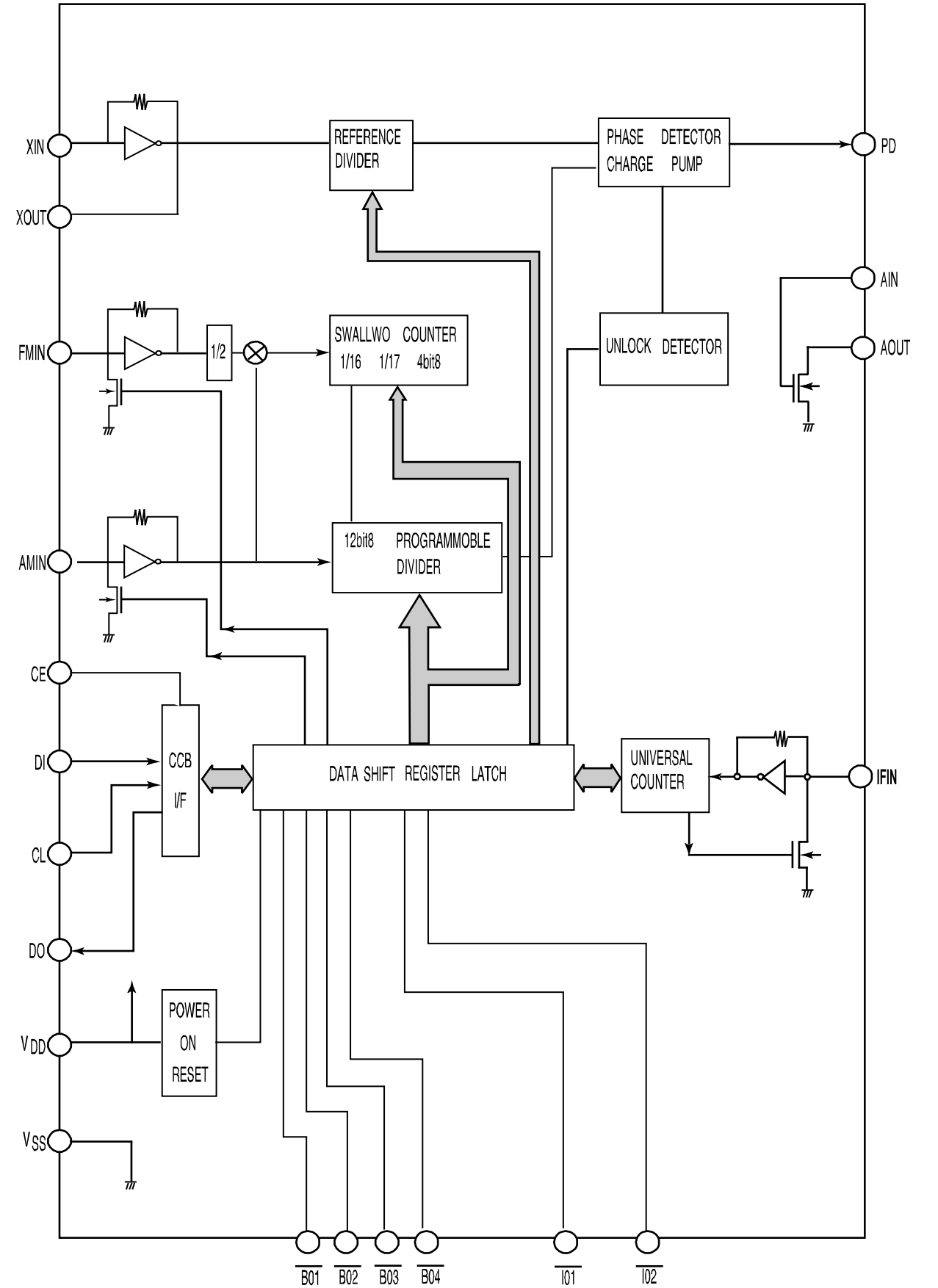


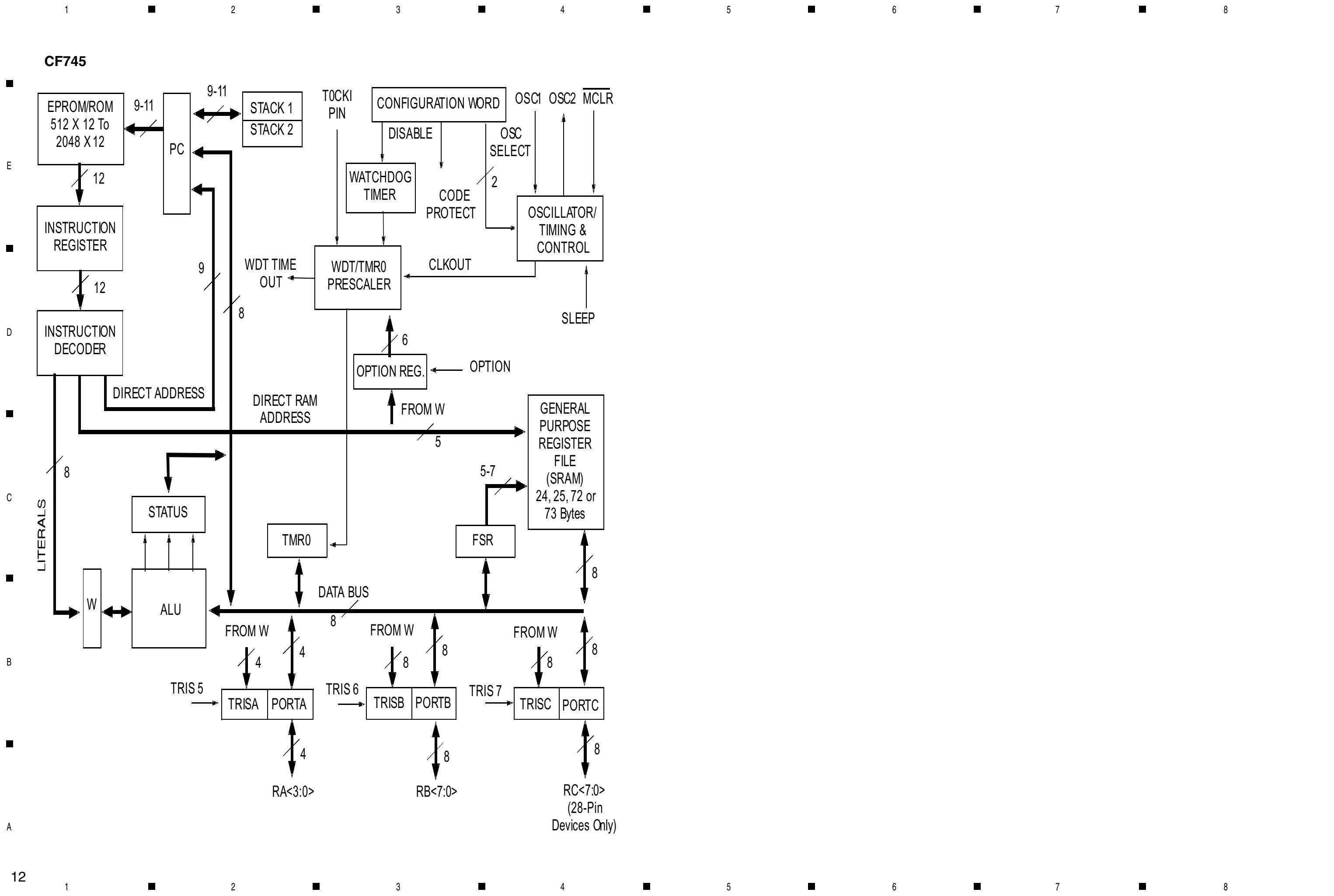
MAIN SCHEMATIC DIAGRAM (BOTTOM RIGHT VIEW)



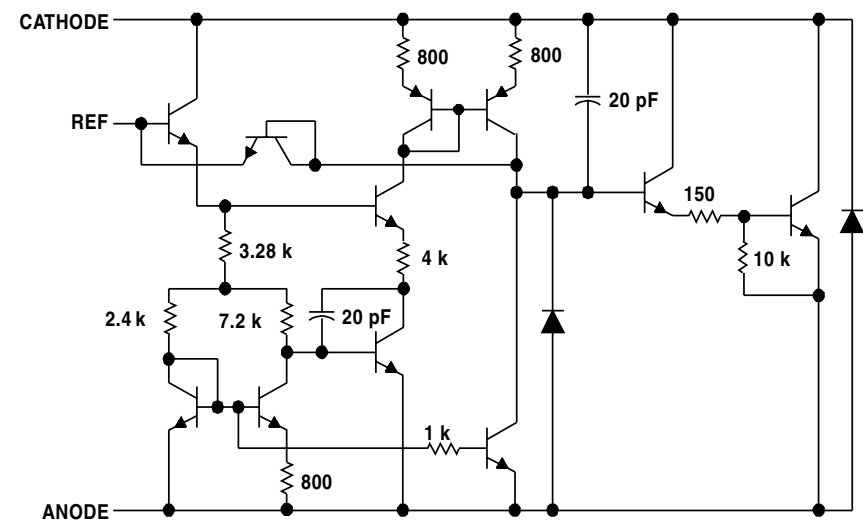
C1	D4	C436	A4	C590	A1	C2257	A3
C2	C3	C441	D5	C591	A1	C2258	A3
C3	C3	C442	D5	C592	A1	C2259	A3
C4	C3	C443	D5	C593	A1	C2260	A2
C5	C3	C444	D5	C594	A1	C2261	A3
C6	D4	C445	D5	C595	A1	C2262	A3
C7	D4	C446	D5	C596	A1	C2263	A3
C8	D4	C447	D5	C598	A1	C2264	A3
C9	D4	C437	A3	C599	A1	C2265	A2
C10	D4	C450	A4	C900	D1	C2268	D2
C11	D4	C500	B3	C901	D4	C2269	D2
C12	D4	C501	B3	C902	D4	C2270	D2
C13	D4	C502	B2	C903	D1	C2271	C1
C14	D4	C504	B2	C904	D4	C2272	D2
C15	D4	C506	A2	C905	D1	C2273	D2
C16	C3	C510	A2	C906	D4	C2274	D2
C17	C3	C511	B2	C907	D4	C2275	D2
C18	C3	C512	A2	C908	D4	C2276	D2
C19	B4	C513	B2	C909	D4	C2277	D2
C20	B4	C514	B2	C910	D3	C2278	D2
C21	D4	C515	B2	C911	D3	C2279	C1
C22	D4	C516	B2	C912	D3	C2280	D2
C38	D3	C517	B1	C928	B4	C2281	D2
C39	C1	C518	B1	C929	B4	C2282	C1
C41	A4	C519	B2	C930	B4	C2283	D2
C42	A4	C520	B1	C931	B4	C2284	D2
C43	C3	C523	B4	C934	D2	C2285	D2
C102	C3	C525	B1	C935	C3	C2286	D2
C103	D4	C526	B1	C937	D4	C2287	D2
C104	D5	C527	B1	C938	D4	C2288	D2
C124	D1	C528	B1	C2015	D2	C2289	C1
C127	D1	C529	B1	C2016	D3	C2290	C1
C128	D1	C530	B1	C2017	D2	C2291	D2
C129	D1	C531	A1	C2018	D2	C2292	D2
C130	D1	C532	B1	C2019	D2	C2293	D2
C131	D1	C533	B1	C2020	C1	C2294	D2
C132	D1	C534	B1	C2021	D2	C2295	D2
C133	D1	C535	B1	C2022	D2	C2296	C1
C134	D1	C536	B1	C2023	D2	C2297	C1
C135	D1	C537	B1	C2024	D2	C2298	D2
C136	D1	C538	A1	C2025	D2	C2299	C1
C137	D1	C539	B1	C2026	D2	C2300	D2
C138	C3	C540	B1	C2027	D2	C2301	D2
C141	C2	C541	B1	C2028	D2	C2302	C1
C142	C2	C542	B1	C2029	D2	C2303	C1
C143	C2	C543	B1	C2030	D2	C2304	C1
C144	C1	C544	B1	C2031	D2	C2305	D2
C151	C4	C545	B1	C2032	D2	C2306	D2
C296	C5	C546	B1	C2033	D2	C2307	C1
C400	C5	C547	B1	C2034	D2	C5011	A1
C401	C5	C548	A1	C2036	D1	C5012	A1
C402	B5	C549	B1	C2052	C4	C5015	A1
C403	B5	C550	B1	C2053	C4	C5016	A1
C404	B4	C554	A1	C2056	C2	C5019	A1
C405	B4	C555	D4	C2062	D2	C5020	A1
C406	B4	C556	A2	C2063	D2	C5021	A1
C407	B4	C557	A3	C2064	D2	C5022	A1
C4080	B4	C558	A3	C2065	D2	C5023	B1
C409	B4	C559	A3	C2066	D2	C5024	C1
C410	A5	C561	A3	C2073	B4	C5031	B2
C411	A5	C562	A3	C2074	B4	C5032	B2
C412	A4	C563	A2	C2076	D4	C5033	B2
C413	A4	C566	A2	C2079	B2	C5034	B2
C414	B4	C567	A2	C2092	B2	C5035	B2
C415	B4	C568	A2	C2094	B2	C5036	B2
C416	B4	C569	A2	C2095	B2	C5037	B2
C417	A4	C570	A2	C2096	B2	C5038	B2
C418	B4	C571	A2	C2164	A3	C5039	A1
C419	B4	C572	A2	C2165	A3	C5040	A1
C420	A4	C573	A2	C2175	A2	C5041	A1
C421	A4	C574	A2	C2176	A2	C5042	A1
C422	A4	C575	A2	C2204	B2		
C423	A4	C576	A1	C2208	A1		
C424	A4	C577	A1	C2216	B1		
C425	A4	C579	A1	C2247	B2		
C426	A3	C581	A1	C2248	B2		
C427	A3	C582	A1	C2249	B2		
C428	A3	C583	A1	C2250	B2		
C429	A3	C584	A1	C2251	B2		
C430	A3	C585	A1	C2252	B2		
C432	A3	C586	B1	C2253	B2		
C433	A3	C587	A1	C2254	B2		
C434	A5	C588	A1	C2255	B2		
C435	A4	C589	A1	C2256	A3		

LC7213M

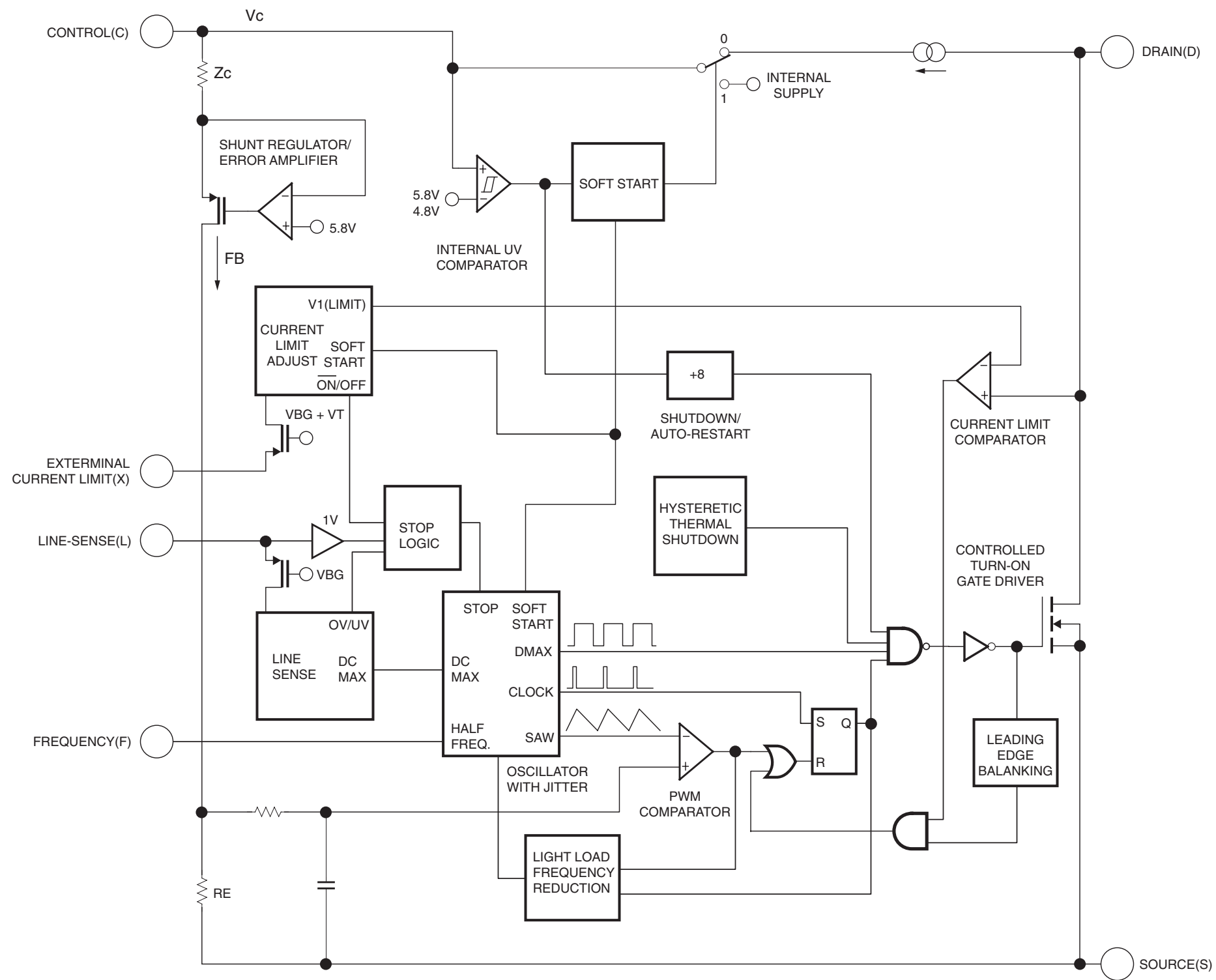




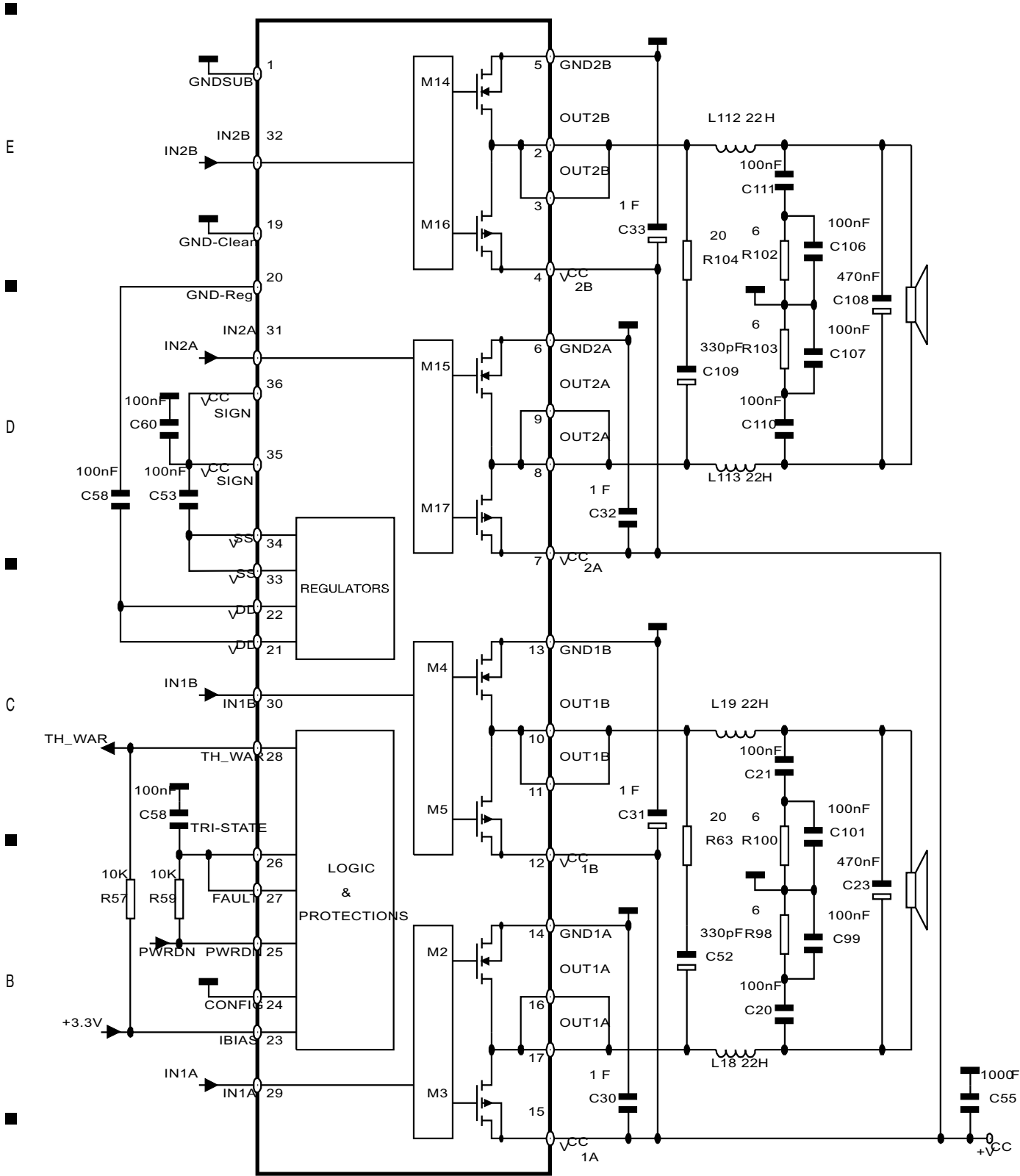
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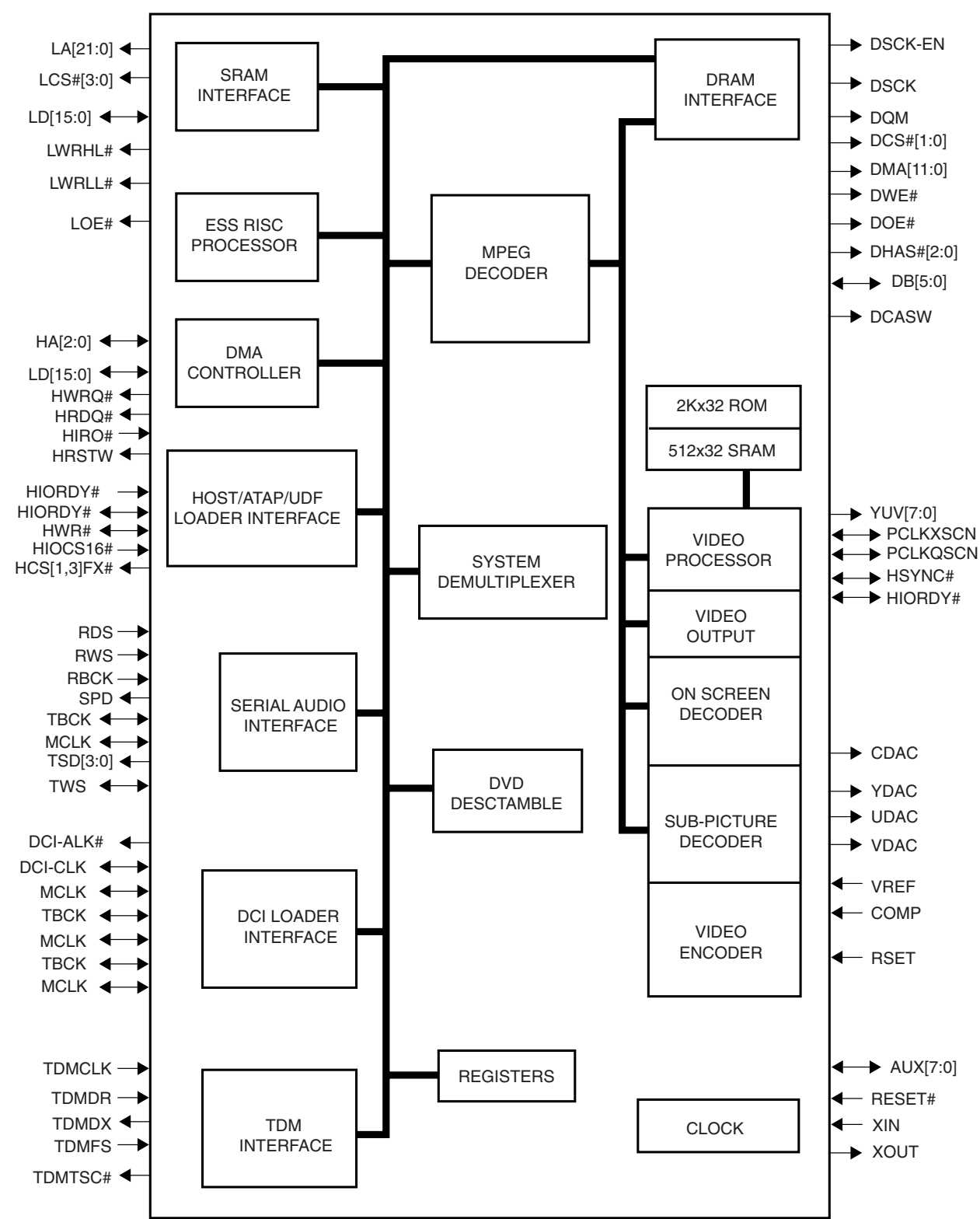
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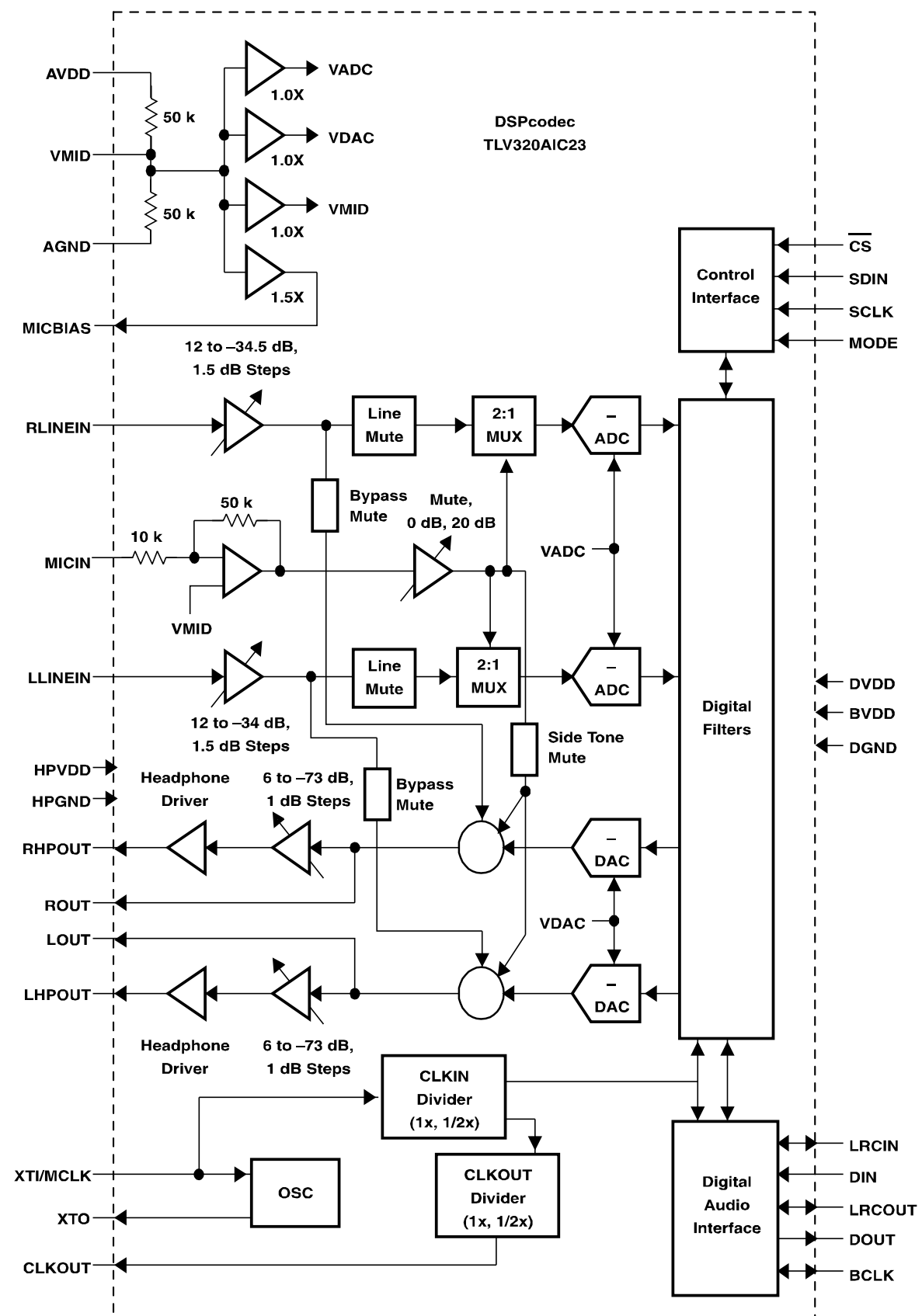
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ESS6018



TLV320A



E

D

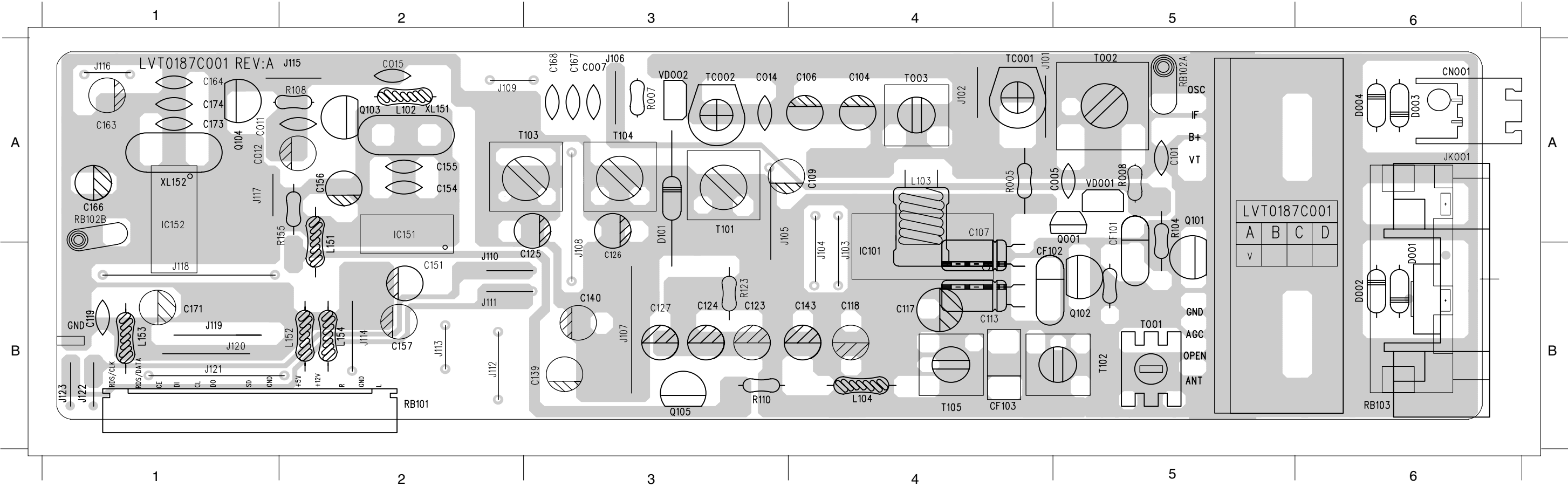
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B

A

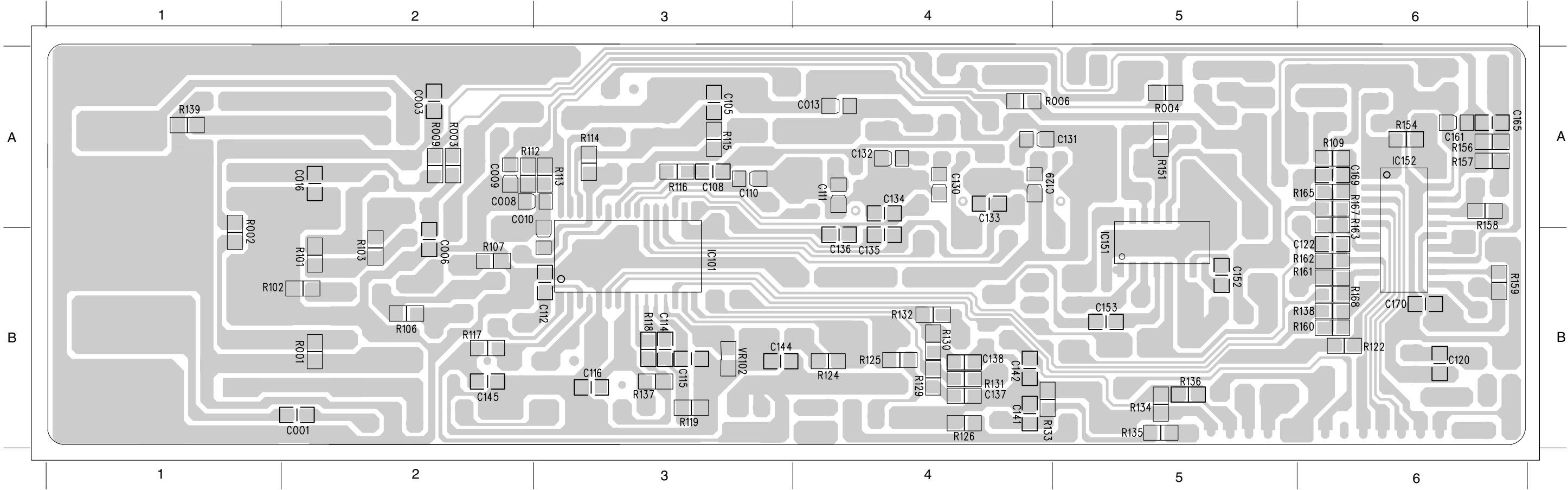
1-5 CIRCUIT BOARD DIAGRAMS
TUNER CIRCUIT BOARD DIAGRAM (TOP VIEW)

C005	A5	C109	A4	C139	B3	C166	A1	J102	A4	J111	B2	J121	B1	L153	B1	T104	A3	VD001	A5	R007	A3	RB103	B6
C007	A3	C113	B4	C140	B3	C167	A3	J103	B4	J112	B2	J122	B1	L154	B2	T105	B4	VD002	A3	R008	A5		
C011	A1	C117	B4	C143	B4	C171	B1	J104	B4	J113	B2	J123	B1	IC151	A2	TC001	A4	XL151	A2	R104	A5		
C012	A1	C118	B4	C151	B2	C173	A1	J116	A1	J114	B2	IC101	B4	IC152	A1	TC002	A3	XL152	A1	R108	A2		
C014	A3	C119	B1	C154	A2	C174	A1	J105	A3	J115	A2	JK001	A6	T001	A1	Q001	A5	D001	B6	R110	B3		
C015	A2	C123	B3	C155	A2	CF101	A5	J106	A3	J116	B5	L102	A2	T002	A5	Q101	A5	D002	B6	R123	B3		
C101	A5	C124	B3	C156	A2	CF102	B5	J107	B3	J117	A1	L103	A4	T003	A4	Q102	B5	D003	A6	R155	A2		
C104	A4	C125	A3	C157	B2	CF103	B4	J108	A3	J118	B1	L104	B4	T101	A3	Q103	A2	D004	A6	RB101	B2		
C106	A4	C126	B3	C163	A1	CN001	A6	J109	A2	J119	B1	L151	A2	T102	B5	Q104	A1	D101	A3	RB102A	A5		
C107	B4	C127	B3	C164	A1	J101	A4	J110	B2	J120	B1	L152	B2	T103	A3	Q105	B3	R005	A4	RB102B	A1		



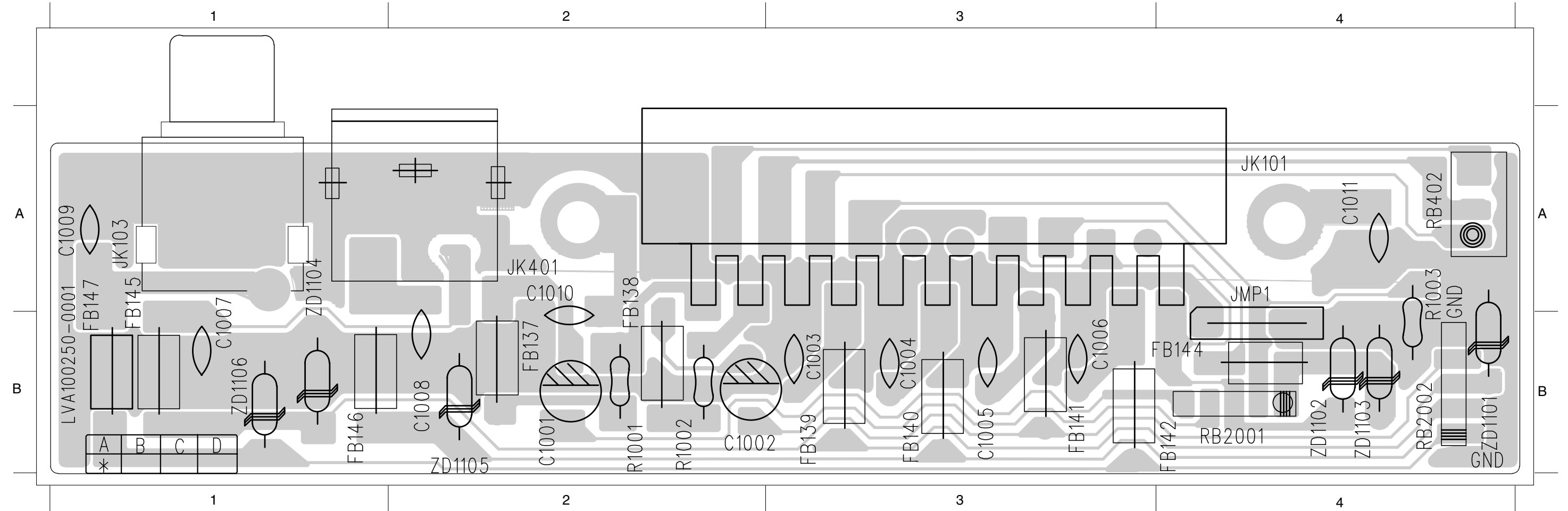
TUNER CIRCUIT BOARD DIAGRAM (BOTTOM VIEW)

C001	B2	C108	A3	C129	A4	C138	B4	C169	A6	R006	A4	R113	A3	R125	B4	R136	B5	R158	A6	VR102	B3
C003	A2	C110	A3	C130	A4	C141	B4	C170	B6	R009	A2	R114	A3	R126	B4	R137	B3	R159	B6		
C006	B2	C111	A4	C131	A4	C142	B4	IC101	B3	R101	B2	R115	A3	R129	B4	R138	B6	R160	B6		
C008	A2	C112	B3	C132	A4	C144	B3	IC151	B5	R102	B2	R116	A3	R130	B4	R139	A1	R161	B6		
C009	A2	C114	B3	C133	A4	C145	B2	IC152	A6	R103	B2	R117	B2	R131	B4	R145	B2	R162	B6		
C010	B3	C115	B3	C134	A4	C152	B5	R001	B2	R106	B2	R118	B3	R132	B4	R151	A5	R163	A6		
C013	A4	C116	B3	C135	B4	C153	B5	R002	B1	R107	B2	R119	B3	R133	B4	R154	A6	R165	A6		
C016	A2	C120	B6	C136	B4	C161	A6	R003	A2	R109	A6	R122	B6	R134	B5	R156	A6	R167	A6		
C105	A3	C122	B6	C137	B4	C165	A6	R004	A5	R112	A2	R124	B4	R135	B5	R135	B5	R168	B6		

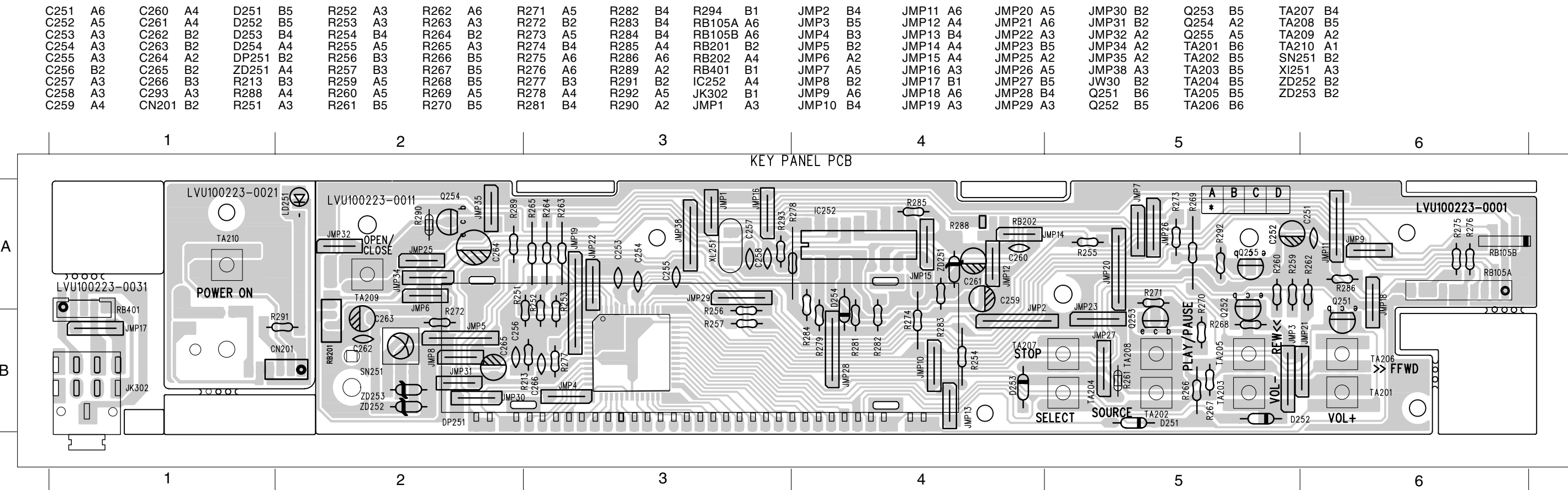


SCART CIRCUIT BOARD DIAGRAM

C1001	B2	C1009	A1	R1001	B2	FB140	B3	ZD1102	B4
C1002	B2	C1010	A2	R1002	B2	FB141	B3	ZD1103	B4
C1003	B3	C1011	A4	R1003	A4	FB142	B4	ZD1104	A1
C1004	B3	JK101	A4	RB2001	B4	FB144	B4	ZD1105	B2
C1005	B3	JK103	A1	RB2002	B4	FB145	B1	ZD1106	B1
C1006	B3	JK401	A2	FB137	B2	FB146	B1		
C1007	B1	JMP1	A4	FB138	B2	FB147	B1		
C1008	B2	RB402	A4	FB139	B3	ZD1101	B4		

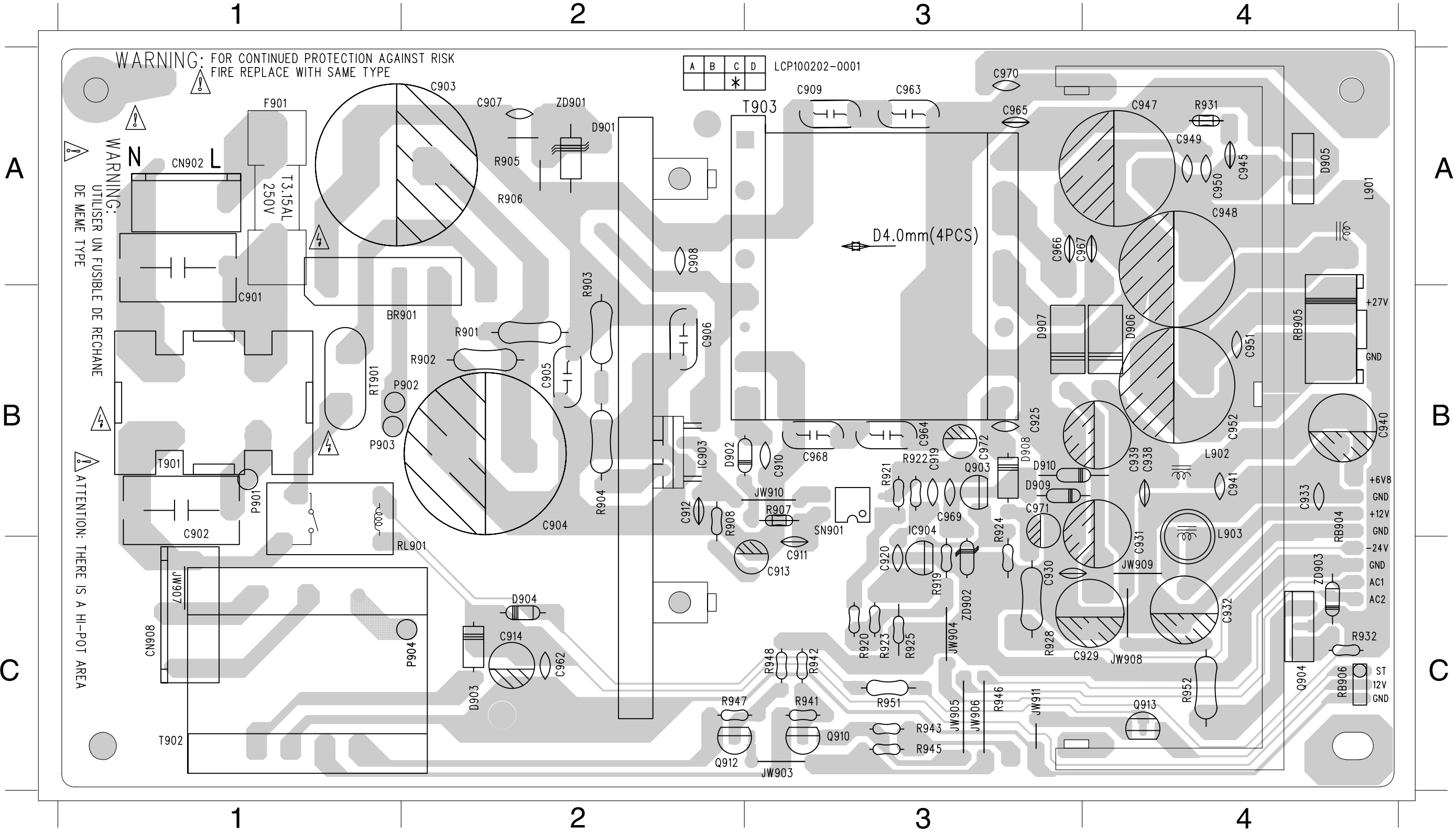


KEY PANEL CIRCUIT BOARD DIAGRAM

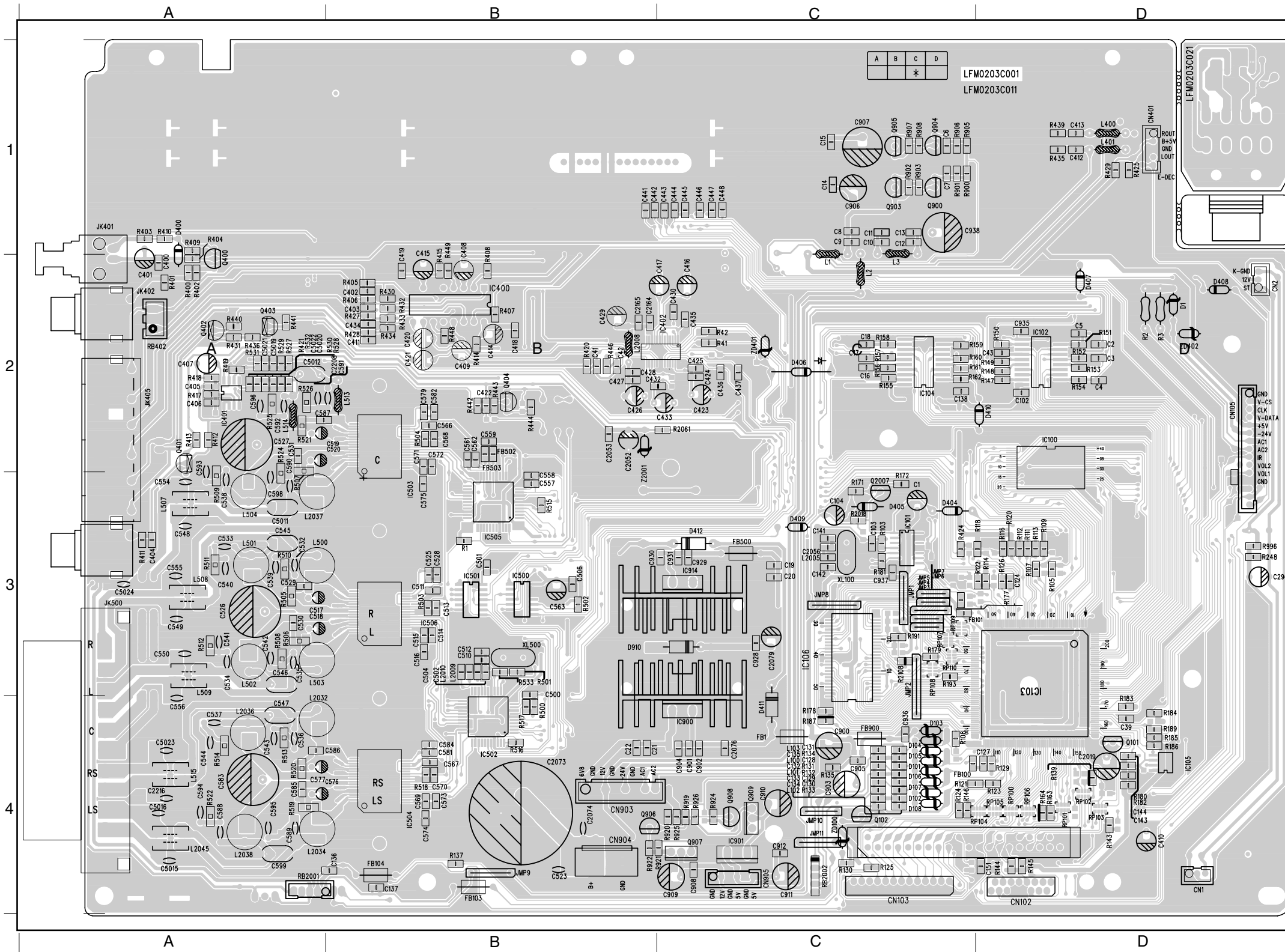


POWER CIRCUIT BOARD DIAGRAM

C901	A1	C909	A3	C925	B3	C940	B4	C952	B4	C969	B3	R905	A2	R923	C3	R943	C3	RB905	B4	D905	A4	ZD903	C4	JW905	C3	L902	B4	IC904	C3	T903	A3
C902	B1	C910	B3	C929	C4	C941	B4	C962	C2	C970	A3	R906	A2	R924	C3	R945	C3	RB906	C4	D906	B4	Q903	B3	JW906	C3	L903	B4	P901	B1		
C903	A2	C911	C3	C930	C3	C945	A4	C963	A3	C971	B3	R907	B3	R925	C3	R946	C3	RL901	B1	D907	B3	Q904	C4	JW907	C1	BR901	B1	P902	B1		
C904	B2	C913	C3	C931	C4	C947	A4	C964	B3	C972	B3	R908	B2	R928	C3	R947	C2	RT901	B1	D908	B3	Q910	C3	JW908	C4	CN902	A1	P903	B1		
C905	B2	C912	B2	C932	C4	C948	A4	C965	A3	R901	B2	R919	C3	R931	A4	R948	C3	D901	A2	D909	B3	Q912	C2	JW909	C4	BR901	B1	P904	C2		
C906	B2	C914	C2	C933	B4	C949	A4	C966	A3	R902	B2	R920	C3	R932	C4	R951	C3	D902	B2	D910	B3	Q913	C4	JW910	B3	CN902	A1	SN901	B3		
C907	A2	C919	B3	C938	B4	C950	A4	C967	A4	R903	B2	R921	B3	R941	C3	R952	C4	D903	C2	ZD901	A2	JW903	C3	JW911	C3	F901	A1	T901	B1		
C908	A2	C920	C3	C939	B4	C951	B4	C968	B3	R904	B2	R922	B3	R942	C3	RB904	B4	D904	C2	ZD902	C3	JW904	C3	L901	A4	IC903	B2	T902	C1		

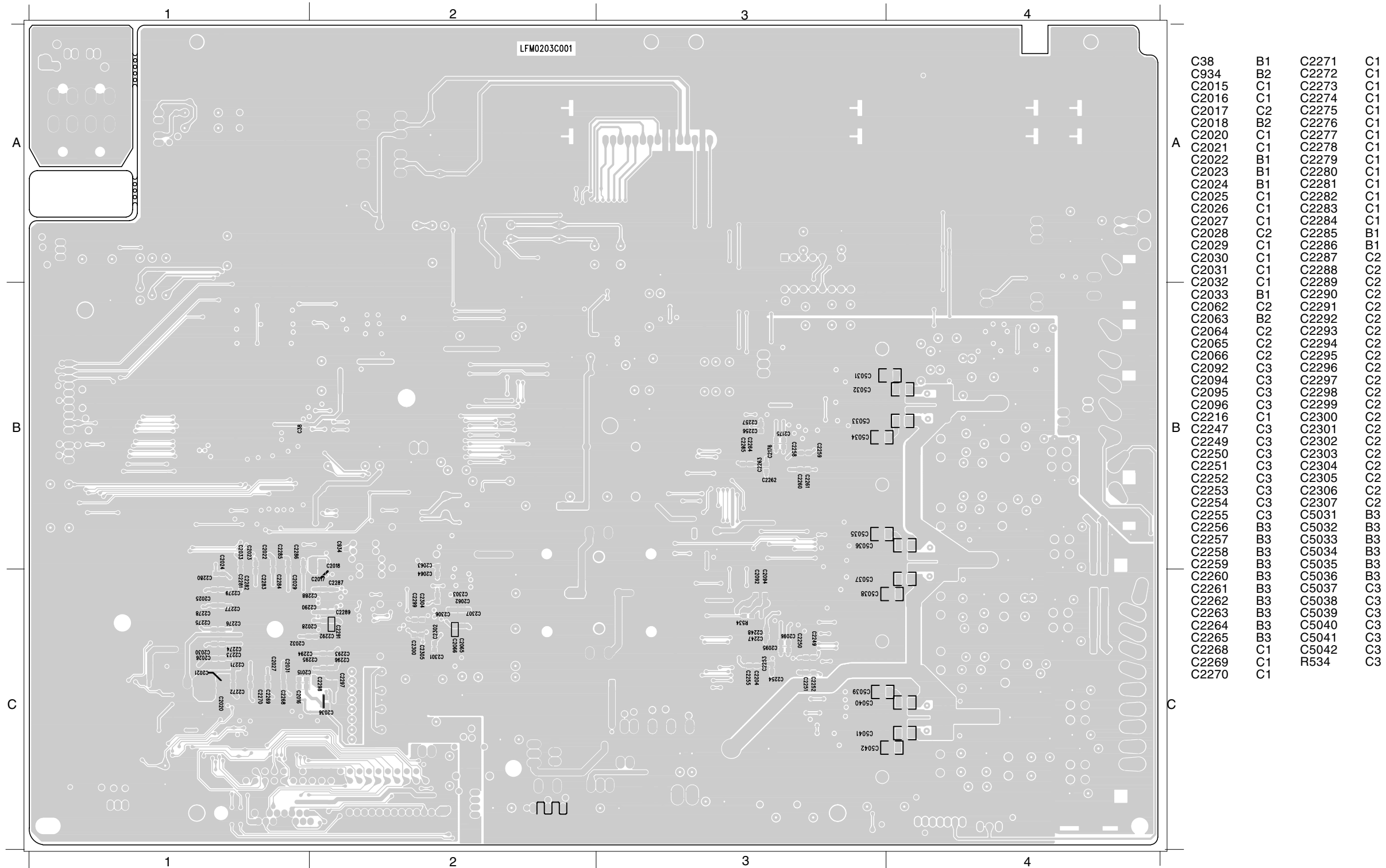


MAIN CIRCUIT BOARD DIAGRAM (TOP VIEW)

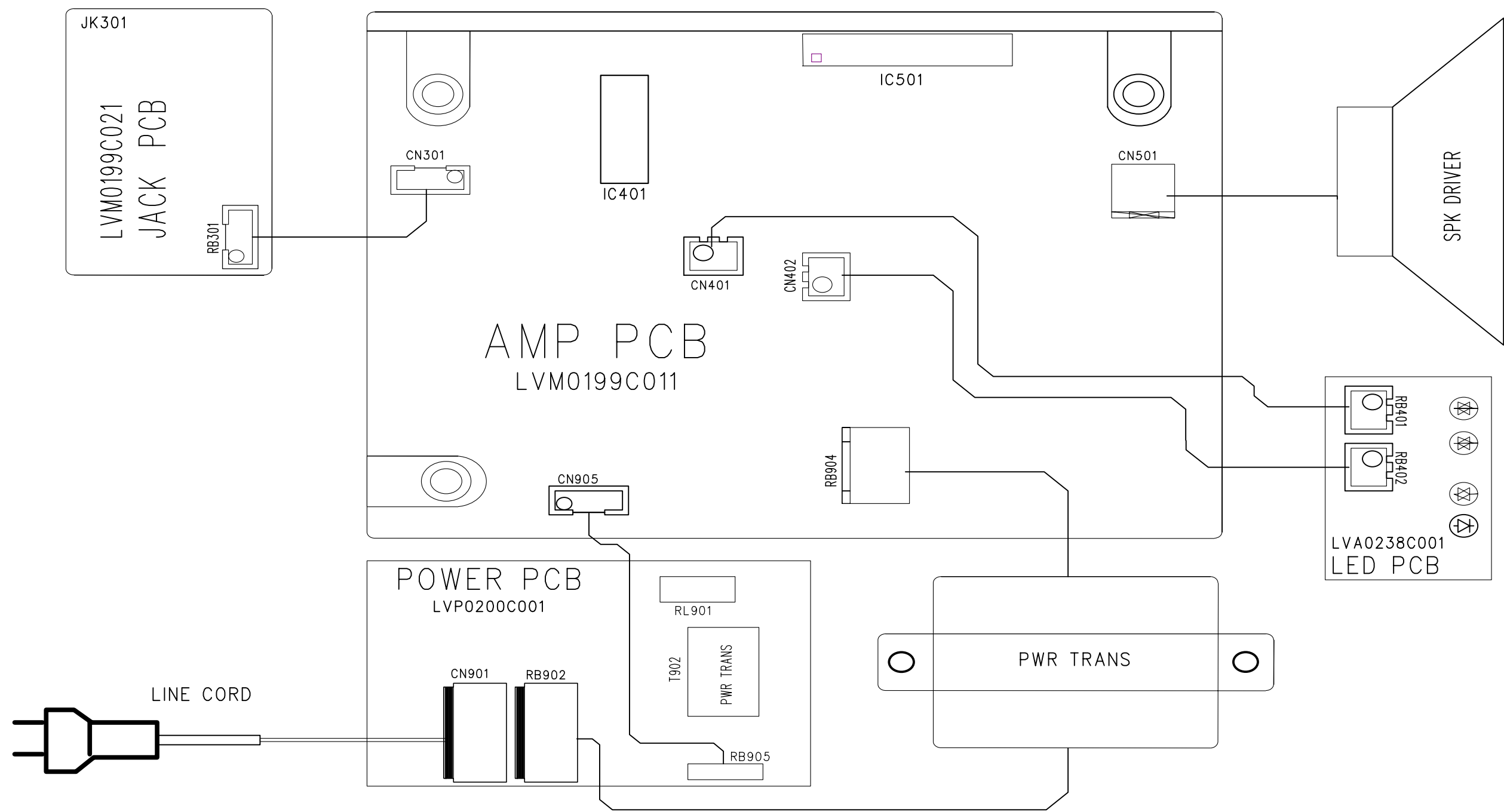


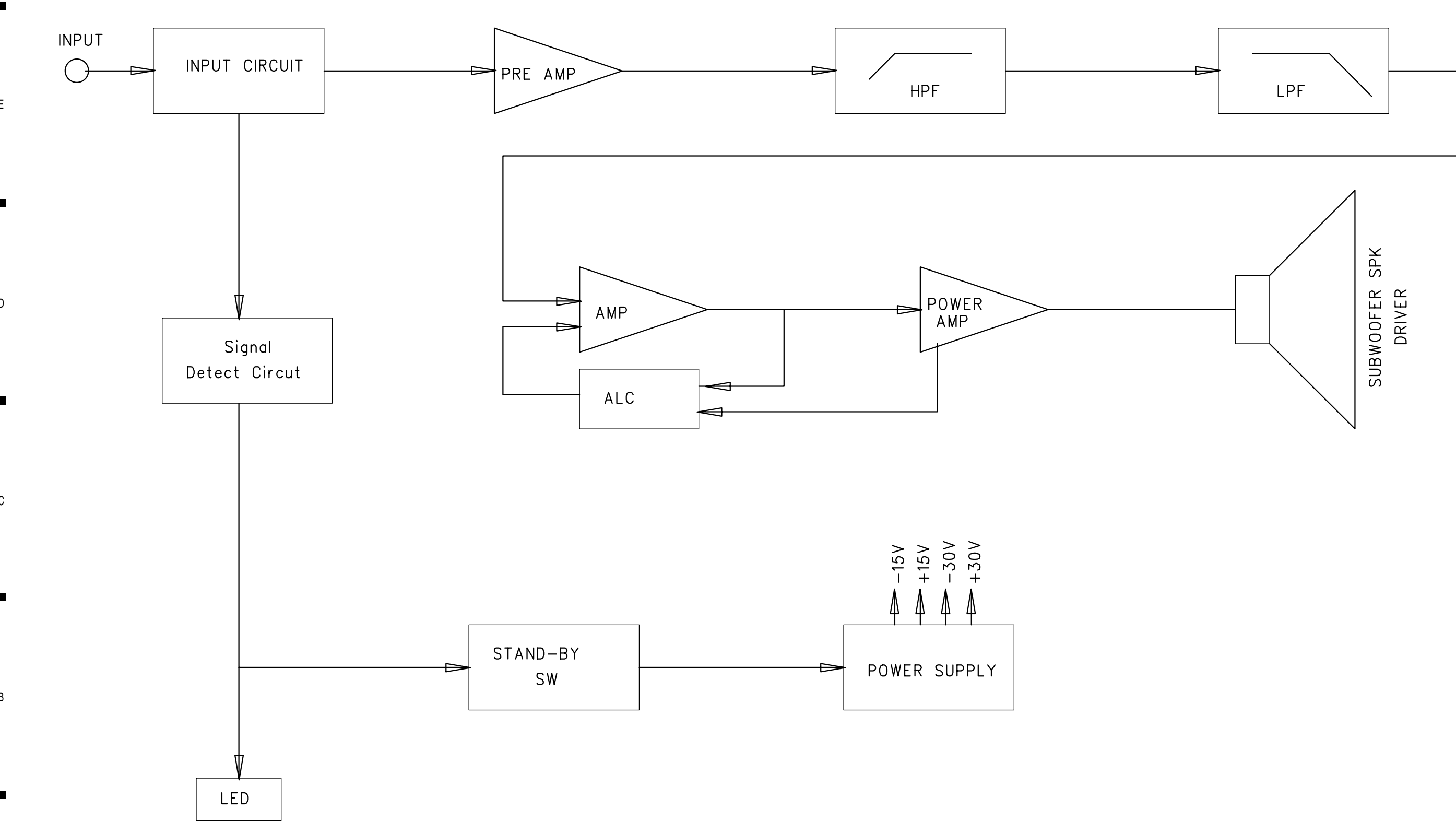
1	R1	B3	R410	A1	R996	D3	C414	B2	C562	B2	CN105	D2	L502	A3
	R2	D2	R411	A3	R2018	C3	C415	B2	C563	B3	CN401	D1	L503	A3
	R3	D2	R412	A2	R2061	C2	C416	C2	C566	B2	CN903	B4	L504	A3
	R41	C2	R413	A2	R2108	C3	C417	C2	C567	B4	CN904	B4	L507	A3
	R42	C2	R414	B2	RB402	A2	C418	B2	C568	B2	CN905	C4	L508	A3
	R103	C3	R415	B2	RB2001	A4	C419	B2	C569	B4	D1	D2	L509	A3
	R105	D3	R417	A2	RB2002	C4	C420	B2	C570	B4	D101	C4	L513	B2
	R107	D3	R418	A2	RB402	A2	C421	B2	C571	B2	D102	C4	L514	A2
	R108	C4	R419	A2	RP100	D4	C422	B2	C572	B2	D103	C4	L515	A4
	R109	C4	R420	B2	RP101	D4	C423	C2	C573	B4	D104	C4	L2005	C3
2	R111	D3	R421	A2	RP102	D4	C424	C2	C574	B4	D105	C4	L2008	B2
	R112	D3	R424	C3	RP103	D4	C425	C2	C575	B3	D106	C4	L2009	B3
	R113	D3	R425	D1	RP104	D4	C426	B2	C576	A4	D107	C4	L2010	B3
	R114	D3	R427	B2	RP105	D4	C427	B2	C577	A4	D108	C4	L2032	A4
	R116	D3	R428	B2	RP106	D4	C428	B2	C579	B2	D400	A1	L2034	A4
	R118	D3	R429	D1	RP107	C3	C429	B2	C581	B4	D404	C3	L2036	A4
	R120	D3	R430	B2	RP108	C3	C430	C2	C582	B2	D405	C3	L2037	A3
	R121	C4	R431	A2	RP109	C3	C432	B2	C583	A4	D406	C2	L2038	A4
	R122	D3	R432	B2	RP110	C3	C433	C2	C584	B4	D407	D2	L2045	A4
	R123	D4	R433	B2	C1	C3	C434	B2	C585	A4	D408	D2	Q101	D4
3	R124	C4	R434	B2	C2	D2	C435	C2	C586	A4	D409	C3	Q102	C4
	R125	C4	R435	D1	C3	D2	C436	C2	C587	A2	D410	D2	Q102	C4
	R126	D3	R436	A2	C4	D2	C437	C2	C588	A4	D411	C4	Q400	A2
	R129	D4	R439	D1	C5	D2	C441	B1	C589	A4	D412	C3	Q401	A2
	R130	C4	R440	A2	C6	C1	C442	B1	C590	A2	D910	B3	Q402	A2
	R131	C4	R441	A2	C7	C1	C443	C1	C591	A2	FB1	C4	Q403	A2
	R132	C4	R442	B2	C8	C1	C444	C1	C592	A2	FB100	C4	Q404	B2
	R133	C4	R443	B2	C9	C1	C445	C1	C593	A2	FB101	C3	Q900	C1
	R134	C4	R444	B2	C10	C1	C446	C1	C594	A4	FB103	B4	Q903	C1
	R135	C4	R446	B2	C11	C1	C447	C1	C595	A4	FB104	B4	Q904	C1
4	R137	B4	R448	B2	C12	C1	C448	C1	C596	A2	FB500	C3	Q905	C1
	R139	D4	R449	B2	C13	C1	C500	B3	C598	A3	FB502	B2	Q906	B4
	R143	D4	R500	B4	C14	C1	C501	B3	C599	A4	FB503	B2	Q907	C4
	R144	D4	R501	B3	C15	C1	C502	B3	C900	C4	FB900	C4	Q908	C4
	R145	D4	R502	B3	C16	C2	C504	B3	C901	C4	IC100	D2	Q909	C4
	R146	C4	R503	B3	C17	C2	C506	B3	C902	C4	IC101	C3	Q2007	C3
	R147	D2	R504	B2	C18	C2	C510	B3	C903	C4	IC102	D2	XL100	C3
	R148	D2	R505	A3	C19	C3	C511	B3	C904	B4	IC103	D3	XL500	B3
	R149	D2	R506	A3	C20	C3	C512	B3	C905	C4	IC104	C2	Z2001	B2
	R150	D2	R507	A3	C21	B4	C513	B3	C906	C1	IC105	D4	ZD100	C4

MAIN CIRCUIT BOARD DIAGRAM (BOTTOM VIEW)



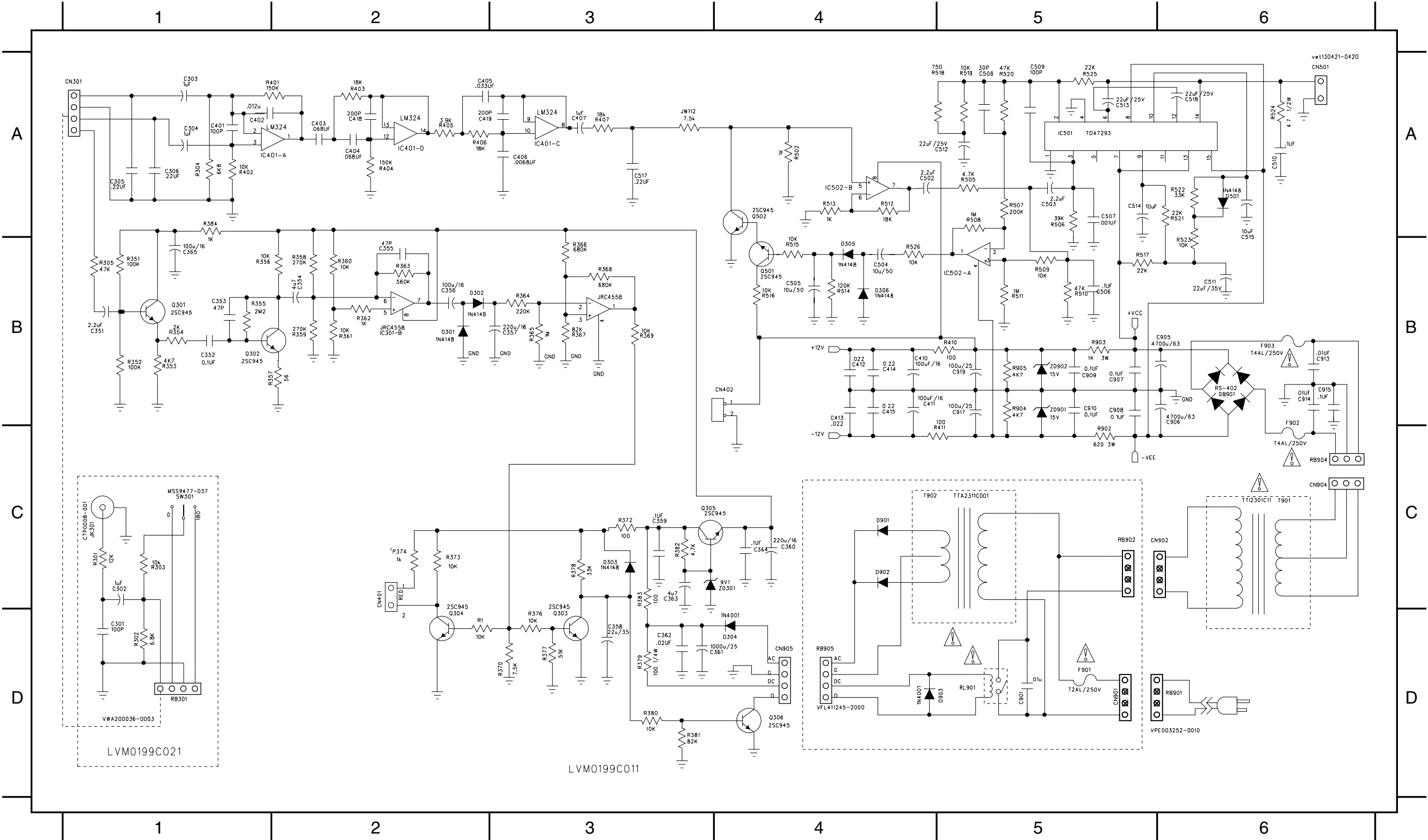
2 SUBWOOFER SECTION
2-1 WIRING DIAGRAM



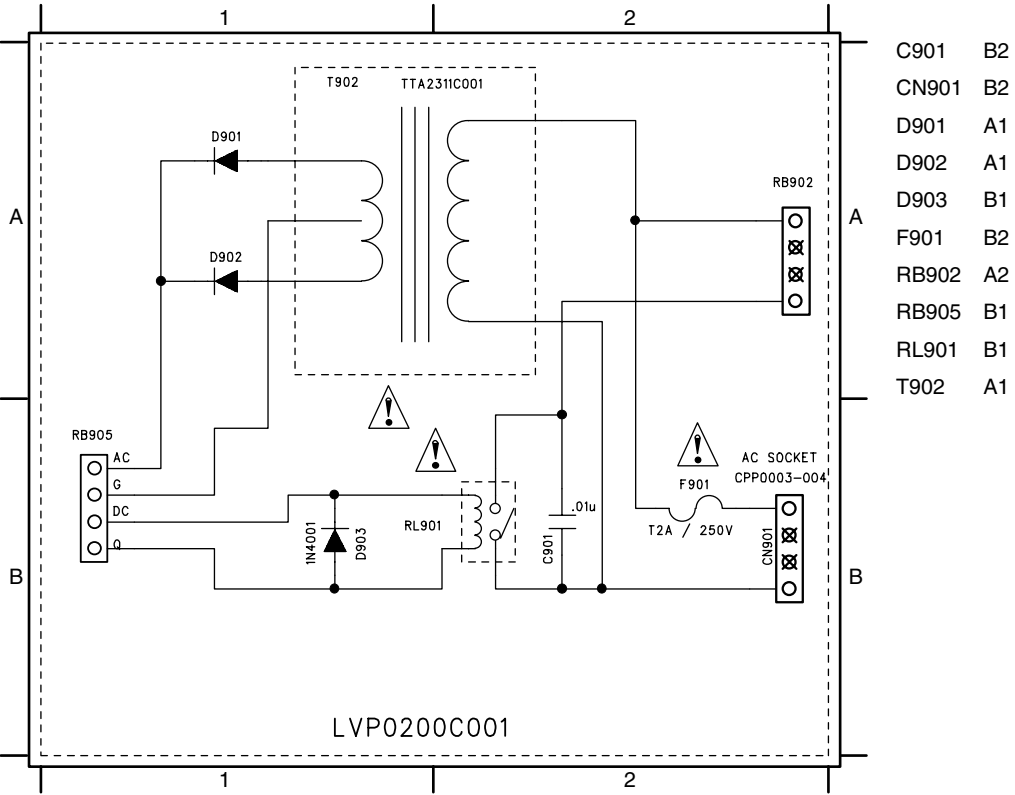


2-3 SCHEMATIC DIAGRAMS
AMP & JACK SCHEMATIC DIAGRAM

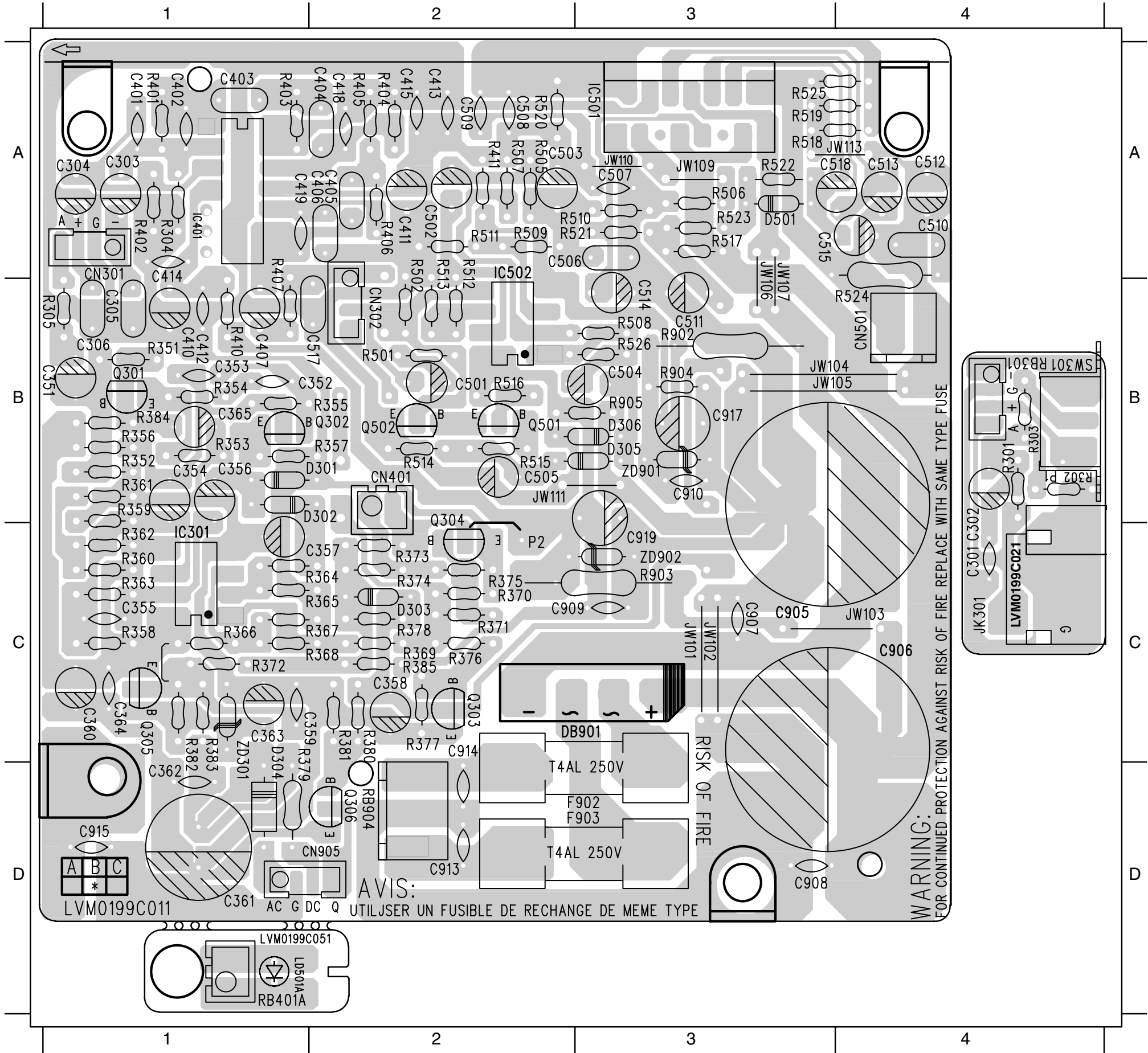
C301 D1	C358 D3	C402 A1	C414 B4	C508 A5	C518 A6	C917 B5	D303 C3	IC401-C A3	Q304 D2	R351 B1	R362 B2	R372 C3	R383 C3	R407 A3	R513 A4	R523 A6	RB904 C6
C302 C1	C357 B3	C403 A2	C415 B4	C509 A5	C905 B6	C919 B5	D305 B4	IC401-D A2	Q305 C3	R352 B1	R363 B2	R373 C2	R384 A1	R502 A4	R514 B4	R524 A6	SW301C1
C303 A1	C359 C3	C404 A2	C418 A2	C510 A6	C906 B6	CN301 A1	D306 B4	IC501 A5	Q306 D4	R353 B1	R364 B3	R374 C2	R401 A1	R505 A5	R515 B4	R525 A5	ZD301 C3
C304 A1	C360 C4	C405 A2	C419 A2	C510A A6	C907 B5	CN302 B3	D501 A6	IC502-A B5	Q501 B4	R354 B1	R365 B3	R376 D3	R402 A1	R506 A5	R516 B4	R526 B4	ZD901 B5
C352 B1	C361 D3	C406 A3	C502 A4	C511 B6	C908 B5	CN401 C2	DB901 B6	IC502-B A4	Q502 A4	R355 B1	R366 B3	R377 D3	R403 A2	R507 A5	R517 B5	R902 C5	ZD902 B5
C354 B2	C362 D3	C407 A3	C503 A5	C512 A5	C909 B5	CN402 B4	F902 C6	JK301 C1	R301 C1	R356 B1	R367 B3	R378 C3	R404 A2	R508 A5	R518 A5	R903 B5	
C351 B1	C363 C3	C410 B4	C504 B4	C513 A5	C910 B5	CN501 A6	F903 B6	JW112 A3	R302 D1	R358 B2	R368 B3	R379 D3	R405 A2	R509 B5	R519 A5	R904 B5	
C353 B1	C364 C4	C411 B4	C505 B4	C514 A5	C913 B6	CN905 D4	IC301-BB2	Q301 B1	R303 C1	R359 B2	R369 B3	R380 D3	R406 A2	R510 B5	R520 A5	R905 B5	
C355 B2	C365 B1	C412 B4	C506 B5	C515 A6	C914 B6	D301 B2	IC401-AA2	Q302 B1	R304 A1	R360 B2	R370 D3	R381 D3	R410 B5	R511 B5	R521 A6	RB301 D1	
C356 B2	C401 A1	C413 B4	C507 A5	C517 A3	C915 B6	D302 B2	IC401-B A1	Q303 D3	R305 B1	R361 B2	R371 D2	R382 C3	R411 C4	R512 A4	R522 A6	RB401 C1	



POWER SCHEMATIC DIAGRAM

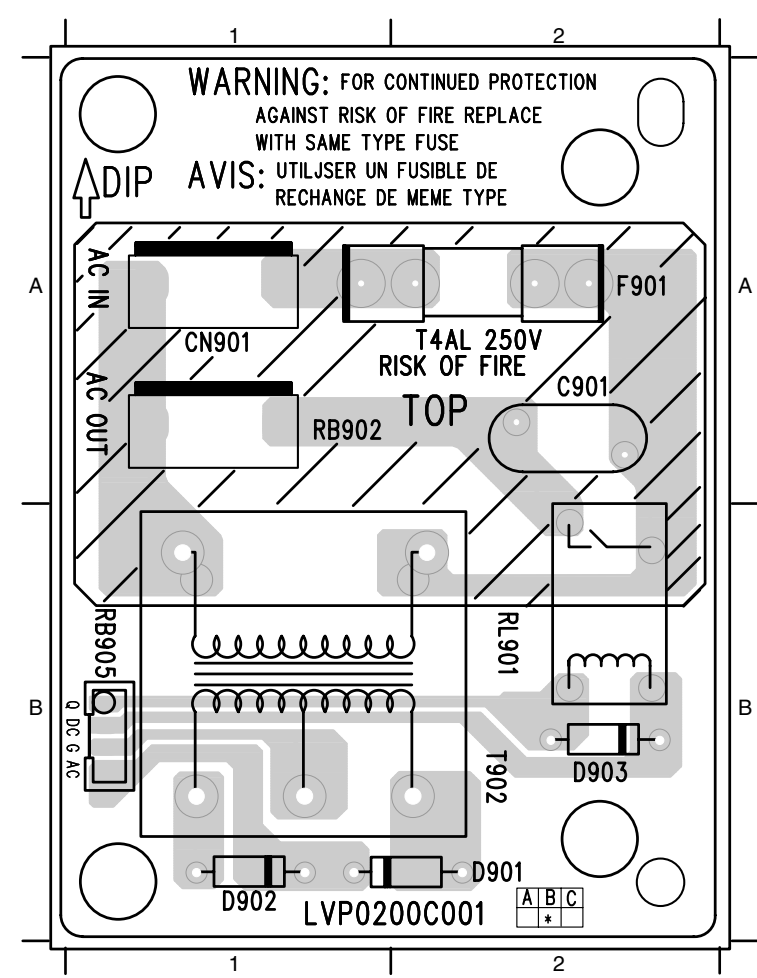


2-4 CIRCUIT BOARD DIAGRAMS
AMP & JACK CIRCUIT BOARD DIAGRAMS



C301	C4	C919	C3	R368	C1
C302	B4	CN301	A1	R369	C2
C303	A1	CN302	B2	R370	C2
C304	A1	CN401	B2	R371	C2
C305	B1	CN501	B4	R372	C1
C306	B1	CN905	D2	R373	C2
C351	B1	D301	B1	R374	C2
C352	B1	D302	B1	R376	C2
C353	B1	D303	C2	R377	C2
C354	B1	C304	D1	R378	C2
C355	C1	D305	B3	R379	D1
C356	B1	D306	B3	R380	C2
C357	C1	D501	A3	R381	C2
C358	C2	DB901	C3	R382	C1
C359	C1	F902	D3	R383	C1
C360	C1	F903	D3	R384	B1
C361	D1	IC301	C1	R401	A1
C362	D1	IC401	A1	R402	A1
C363	C1	IC501	A3	R403	A1
C364	C1	IC502	B2	R404	A2
C365	B1	JK301	C4	R405	A2
C401	A1	JW101	C3	R406	A2
C402	A1	JW102	C3	R407	B1
C403	A1	JW103	C4	R410	B1
C404	A2	JW104	B3	R411	A2
C405	A2	JW105	B3	R502	B2
C406	A2	JW106	B3	R505	A2
C407	B1	JW107	B3	R506	A3
C410	B1	JW109	A3	R507	A2
C411	A2	JW110	A3	R508	B3
C413	A2	JW111	B2	R509	A2
C414	A1	JW113	A4	R510	A3
C415	A2	Q301	B1	R511	A2
C418	A2	Q302	B1	R512	B2
C419	A1	Q303	C2	R513	B2
C502	A2	C304	C2	R514	B2
C503	A2	Q305	C1	R515	B2
C504	B3	Q306	D2	R516	B2
C505	B2	Q501	B2	R517	A3
C506	A3	Q502	B2	R518	A3
C507	A3	R301	B4	R519	A3
C508	A2	R302	B4	R520	A2
C509	A2	R303	B4	R521	A3
C510	A4	R305	B1	R522	A3
C511	B3	R351	B1	R523	A3
C512	A4	R352	B1	R524	B4
C513	A4	R353	B1	R525	A3
C514	B3	R354	B1	R526	B3
C515	A4	R355	B1	R902	B3
C517	B2	R356	B1	R903	C3
C518	A4	R357	B1	R904	B3
C905	C3	R358	C1	R905	B3
C906	C4	R359	B1	RB301	B4
C907	C3	R360	C1	RB401A	D1
C908	D3	R361	B1	RB904	D2
C909	C3	R362	C1	SW301	B4
C910	B3	R363	C1	ZD301	C1
C913	D2	R364	C1	ZD901	B3
C914	C2	R365	C1	ZD902	C3
C915	D1	R366	C1		
C917	B3	R367	C1		

POWER CIRCUIT BOARD DIAGRAM



- C901 A2
- CN901 A1
- D901 B2
- D902 B1
- D903 B2
- F901 A2
- RB902 B1
- RB905 B1
- RL901 B2
- T902 B2

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